Access DB# 56012

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Hong Liu Examiner # : _____ Date: 12/3/01
Art Unit: 1634 Phone Number 30 6-5214 Serial Number: 09/8 [illegible] 061
Mail Box and Bldg/Room Location: 4E01 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

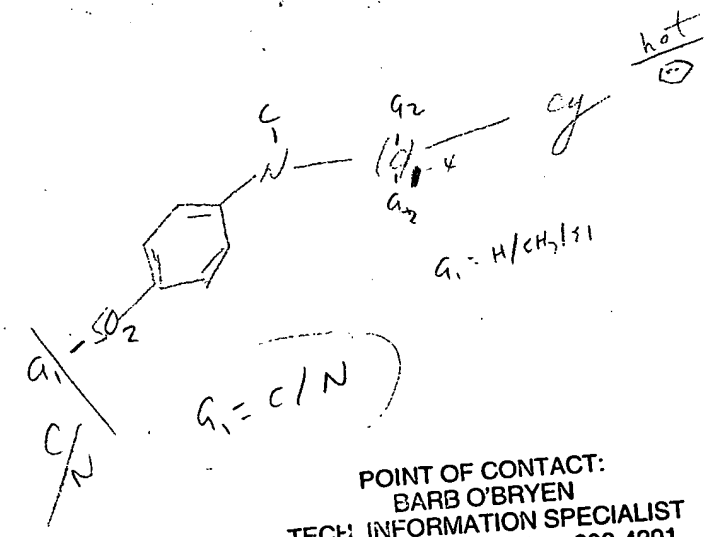
Inventors (please provide full names): Krauss N Mirzadegan T.

_____

Earliest Priority Filing Date: _____

***For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.**

Bank please.



POINT OF CONTACT:
BARB O'BRYEN
TECH. INFORMATION SPECIALIST
STIC CM1 ~~12C14~~ 12E18 308-4291

****

STAFF USE ONLY	Type of Search		Vendors and cost where applicable	
Searcher: Anita	NA Sequence (#)		STN	46-48-7
Searcher Phone #:	AA Sequence (#)		Dialog	
Searcher Location:	Structure (#)	4	Questel/Orbit	
Date Searcher Picked Up:	Bibliographic		Dr.Link	
Date Completed: 12-5-01	Litigation		Lexis/Nexis	
Searcher Prep & Review Time: 40	Fulltext		Sequence Systems	
Clerical Prep Time:	Patent Family		WWW/Internet	
Online Time: 46.41	Other		Other (specify)	

PTO-1590 (1-2000)

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=> fil reg; d stat que l22; fil capl; d que nos l23; fil uspatfull; d que nos l24
FILE 'REGISTRY' ENTERED AT 12:12:25 ON 05 DEC 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES:    3 DEC 2001  HIGHEST RN 373353-24-3
DICTIONARY FILE UPDATES:   3 DEC 2001  HIGHEST RN 373353-24-3

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Calculated physical property data is now available.  See HELP PROPERTIES
for more information.  See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

L15                 STR
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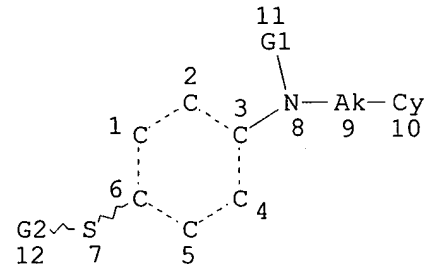

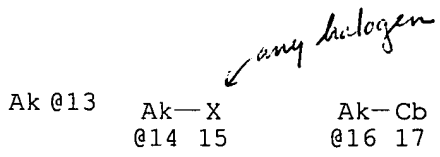

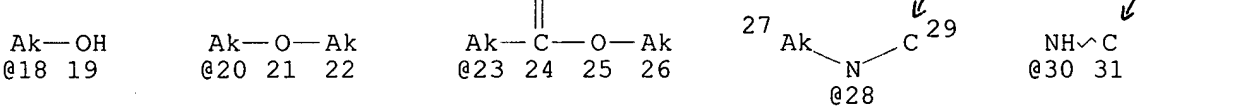


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VAR G1=C/CY
VAR G2=13/14/16/18/20/23/28/30
NODE ATTRIBUTES:
NSPEC   IS RC     AT  29
NSPEC   IS RC     AT  31
CONNECT IS E3  RC AT   8
CONNECT IS E2  RC AT   9
CONNECT IS E1  RC AT  13
CONNECT IS E2  RC AT  20
CONNECT IS E1  RC AT  22
CONNECT IS E2  RC AT  23
CONNECT IS E1  RC AT  26
CONNECT IS E1  RC AT  27
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  32

STEREO ATTRIBUTES: NONE
L17         198 SEA FILE=REGISTRY SSS FUL L15
L19             STR
```

full file search done on this structure

Cb is connected to exactly 2 non-hydrogen atoms (R3 = H)

```
S-~Cb-~N-~G1~Cy
1   2   3   4   5
```

```
REP G1=(0-4) C
NODE ATTRIBUTES:
CONNECT IS E2  RC AT   2
DEFAULT MLEVEL IS ATOM
GGCAT   IS MCY  UNS  AT   2
DEFAULT ECLEVEL IS LIMITED
ECOUNT  IS E6 C  AT   2

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   5

STEREO ATTRIBUTES: NONE
L20             STR
```

subset search done ~~one~~ looking ~~for~~ for either of these 2 structures

```
    9
   G2
    ~
S-~Cb-~N-~G1~Cy       O—Ak
1   2   3   4   5     @6  7
```

Ak @8

```
REP G1=(0-4) C
VAR G2=8/X/NO2/CN/OH/6
NODE ATTRIBUTES:
CONNECT IS E3  RC AT   2
CONNECT IS E1  RC AT   7
CONNECT IS E1  RC AT   8
DEFAULT MLEVEL IS ATOM
GGCAT   IS MCY  UNS  AT   2
DEFAULT ECLEVEL IS LIMITED
ECOUNT  IS E6 C  AT   2

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   9

STEREO ATTRIBUTES: NONE
L22         145 SEA FILE=REGISTRY SUB=L17 SSS FUL (L15 AND (L19 OR L20))

100.0% PROCESSED    198 ITERATIONS                    145 ANSWERS
SEARCH TIME: 00.00.06
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- Cb is connected to exactly 3 non-hydrogen atoms

```
FILE 'CAPLUS' ENTERED AT 12:12:26 ON 05 DEC 2001
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FILE COVERS 1947 - 5 Dec 2001  VOL 135 ISS 24
FILE LAST UPDATED: 3 Dec 2001  (20011203/ED)
```

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAplus now provides online access to patents and literature covered in CA from 1947 to the present. On April 22, 2001, bibliographic information and abstracts were added for over 2.2 million references published in CA from 1947 to 1966.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.


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L15             STR
L17         198 SEA FILE=REGISTRY SSS FUL L15
L19             STR
L20             STR
L22         145 SEA FILE=REGISTRY SUB=L17 SSS FUL (L15 AND (L19 OR L20))
L23          54 SEA FILE=CAPLUS ABB=ON  L22
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FILE 'USPATFULL' ENTERED AT 12:12:26 ON 05 DEC 2001
CA INDEXING COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 4 Dec 2001 (20011204/PD)
FILE LAST UPDATED: 4 Dec 2001 (20011204/ED)
HIGHEST GRANTED PATENT NUMBER: US6327709
HIGHEST APPLICATION PUBLICATION NUMBER: US2001047529
CA INDEXING IS CURRENT THROUGH 4 Dec 2001 (20011204/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 4 Dec 2001 (20011204/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2001
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2001

>>> USPAT2 is now available.  USPATFULL contains full text of the     <<<
>>> original, i.e., the earliest published granted patents or        <<<
>>> applications.  USPAT2 contains full text of the latest US        <<<
>>> publications, starting in 2001, for the inventions covered in    <<<
>>> USPATFULL.  A USPATFULL record contains not only the original    <<<
>>> published document but also a list of any subsequent             <<<
>>> publications.  The publication number, patent kind code, and     <<<
>>> publication date for all the US publications for an invention     <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL  <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc.                                                        <<<

>>> USPATFULL and USPAT2 can be accessed and searched together        <<<
>>> through the new cluster USPATALL.  Type FILE USPATALL to         <<<
>>> enter this cluster.                                              <<<
>>>                                                                  <<<
>>> Use USPATALL when searching terms such as patent assignees,      <<<
>>> classifications, or claims, that may potentially change from     <<<
>>> the earliest to the latest publication.                          <<<
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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L15             STR
L17         198 SEA FILE=REGISTRY SSS FUL L15
L19             STR
L20             STR
L22         145 SEA FILE=REGISTRY SUB=L17 SSS FUL (L15 AND (L19 OR L20))
L24          13 SEA FILE=USPATFULL ABB=ON  L22


=> dup rem l23,l24
FILE 'CAPLUS' ENTERED AT 12:12:34 ON 05 DEC 2001
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FILE 'USPATFULL' ENTERED AT 12:12:34 ON 05 DEC 2001
CA INDEXING COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)
PROCESSING COMPLETED FOR L23
PROCESSING COMPLETED FOR L24
L26           60 DUP REM L23 L24 (7 DUPLICATES REMOVED)
                 ANSWERS '1-54' FROM FILE CAPLUS
                 ANSWERS '55-60' FROM FILE USPATFULL

=> d ibib abs hitstr l26 1-60; fil cao; d que nos l25

L26  ANSWER 1 OF 60  CAPLUS  COPYRIGHT 2001 ACS        DUPLICATE 1
ACCESSION NUMBER:         2001:792340  CAPLUS
DOCUMENT NUMBER:          135:331672
TITLE:                    Preparation of methionine derivatives as inhibitors of
                          protein isoprenyl transferases
INVENTOR(S):              Sebti, Said M.; Hamilton, Andrew D.; Augeri, David J.;
                          Barr, Kenneth J.; Fakhoury, Stephen A.; Janowick,
                          David A.; Kalvin, Douglas M.; O'connor, Stephen J.;
                          Rosenberg, Saul H.; Shen, Wang; Swenson, Rolf E.;
                          Sorenson, Bryan K.; Sullivan, Gerard M.; Tasker,
                          Andrew S.; Wasicak, James T.; Nelson, Lissa T. J.;
                          Henry, Kenneth J.; Wang, Le
PATENT ASSIGNEE(S):       University of Pittsburgh, USA
SOURCE:                   U.S., 514 pp., Cont.-in-part of U.S. Ser. No. 852,858,
                          abandoned.
                          CODEN: USXXAM
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   7
PATENT INFORMATION:

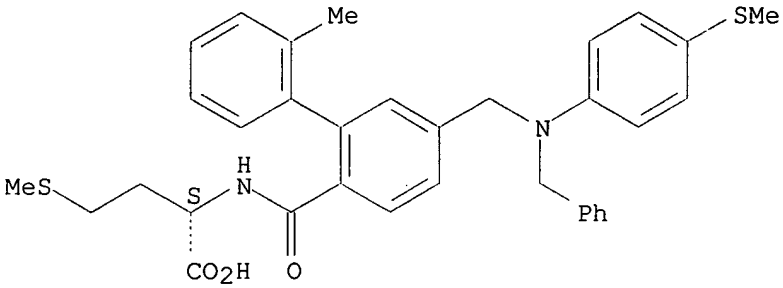
     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
     ---------------   ----  --------      ---------------  --------
     US 6310095         B1   20011030      US 1998-73794    19980507
PRIORITY APPLN. INFO.:                  US 1995-7247     P  19951106
                                        US 1996-740909   B2 19961105
                                        US 1997-852858   B2 19970507
OTHER SOURCE(S):          MARPAT 135:331672
AB   Compds. R3-Z-L1-aryl [aryl is a benzene ring having certain substituents
     R1, R2, R4; L1 is L4NR5L5 where L4 and L5 are absent or alkylene, R5 is H,
     alkanoyl, alkoxy, alkoxyalkyl, haloalkyl, etc.; Z is a covalent bond; R3 =
     cycloalkyl, alkoxy, alkyl, halogen, oxo, etc.] or their pharmaceutically
     acceptable salts, were prepd. as inhibitors of protein isoprenyl
     transferases.  Thus, N-[4-[(R)-thiazolidin-4-ylcarbonylamino]-2-
     phenylbenzoyl]methionine Me ester hydrochloride, prepd. via amidation
```

reaction, showed 92% inhibition of farnesyl transferase at 1x10-6 M.

IT **216232-65-4P 216233-15-7P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of methionine derivs. as inhibitors of protein isoprenyl transferases)

RN 216232-65-4 CAPLUS
CN L-Methionine, N-[[2'-methyl-5-[[[4-(methylthio)phenyl](phenylmethyl)amino]methyl][1,1'-biphenyl]-2-yl]carbonyl]-, monolithium salt (9CI) (CA INDEX NAME)

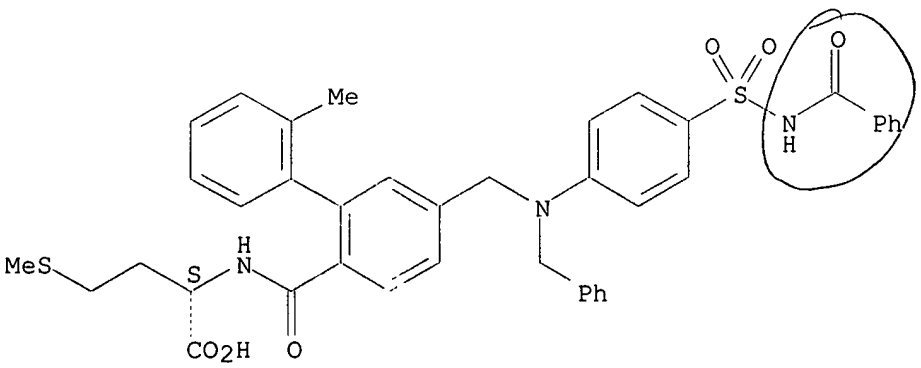
Absolute stereochemistry.



● Li

RN 216233-15-7 CAPLUS
CN L-Methionine, N-[[5-[[[4-[(benzoylamino)sulfonyl]phenyl](phenylmethyl)amino]methyl]-2'-methyl[1,1'-biphenyl]-2-yl]carbonyl]-, monolithium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

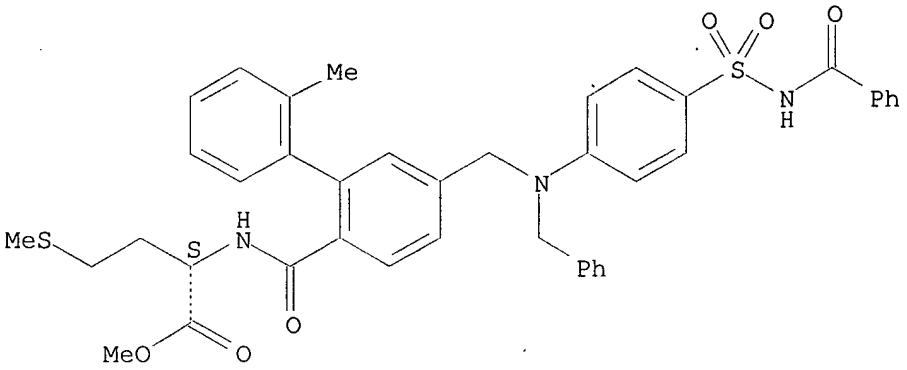


● Li

IT **216229-16-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of methionine derivs. as inhibitors of protein isoprenyl transferases)

RN 216229-16-2 CAPLUS
CN L-Methionine, N-[[5-[[[4-[(benzoylamino)sulfonyl]phenyl](phenylmethyl)amino]methyl]-2'-methyl[1,1'-biphenyl]-2-yl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 48
REFERENCE(S): (1) Anon; EP 0203587 1986 CAPLUS
(2) Anon; EP 0456180 1991 CAPLUS
(3) Anon; EP 0461869 1991 CAPLUS
(4) Anon; WO 9116340 1991 CAPLUS
(5) Anon; EP 0512865 1992 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 2 OF 60 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 2
ACCESSION NUMBER: 1998:186512 CAPLUS
DOCUMENT NUMBER: 128:230259
TITLE: Preparation of N-(piperidinoalkyl)benzamides and analogs as 5-HT2A antagonists
INVENTOR(S): Aoki, Tsuyoshi; Takahashi, Atsuo; Sato, Hiroyasu; Shimanuki, Eiji; Gengyou, Kaoru; Nishimata, Toyoki; Ishigami, Sachiko; Yamada, Shin-ichi; Yamaguchi, Takahiro; Manome, Yoichi; Sato, Isamu; Kogi, Kentaro; Narita, Sen-ichi
PATENT ASSIGNEE(S): Toa Eiyo, Ltd., Japan
SOURCE: U.S., 59 pp. Cont.-in-part of U.S. Ser. No. 363,223, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5728835	A	19980317	US 1995-575062	19951219
PRIORITY APPLN. INFO.:			JP 1993-346805	19931227
			US 1994-363223	19941223

OTHER SOURCE(S): MARPAT 128:230259
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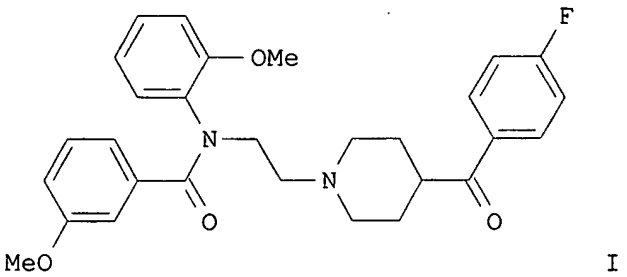


I

AB R1Z1NR2(CH2)nZ2COR3 [I; R1 = (un)substituted Ph, -(N-oxido)pyridyl; R2 = (un)substituted Ph, -pyridyl; R3 = (un)substituted Ph; Z1 = CO or SO2; Z2 = piperidine-1,4-diyl; n = 2-3] were prepd. Thus, 3-(MeO)C6H4COCl was amidated by 2-(MeO)C6H4NH2 and the product N-alkylated by 2-(2-bromoethyl)tetrahydropyran to give, after deprotection and oxidn., 3-(MeO)C6H4CON(CH2CHO)C6H4(OMe)-2 which was reductively condensed with 4-(4-fluorobenzoyl)piperidine to give title compd. II. Data for biol. activity of I were given.

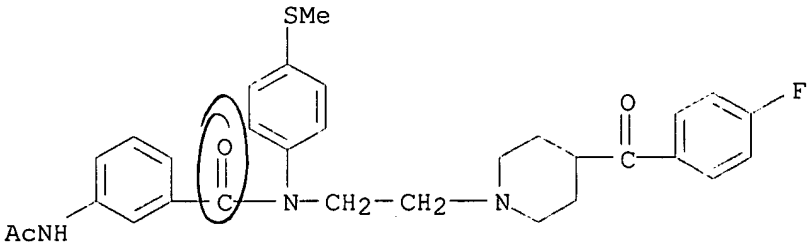
IT **169948-95-2P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-(piperidinoalkyl)benzamides and analogs as 5-HT2A antagonists)

RN 169948-95-2 CAPLUS

CN Benzamide, 3-(acetylamino)-N-[2-[4-(4-fluorobenzoyl)-1-piperidinyl]ethyl]-N-[4-(methylthio)phenyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

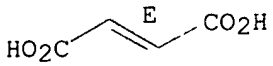
CRN 169948-94-1
CMF C30 H32 F N3 O3 S



CM 2

CRN 110-17-8
CMF C4 H4 O4
CDES 2:E

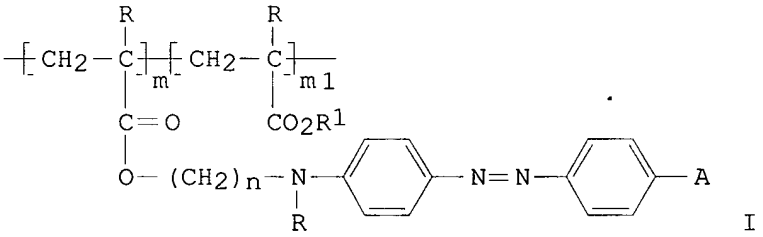
Double bond geometry as shown.



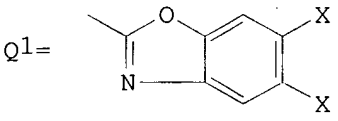
L26 ANSWER 3 OF 60 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 3
ACCESSION NUMBER: 1992:244880 CAPLUS
DOCUMENT NUMBER: 116:244880
TITLE: Nonlinear optical devices
INVENTOR(S): Allen, Diane; Lee, Cherylyn; DeMartino, Ronald N.
PATENT ASSIGNEE(S): Hoechst Celanese Corp., USA
SOURCE: U.S., 6 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

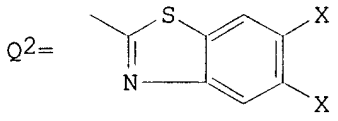
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5041510	A	19910820	US 1990-477283	19900207
WO 9112280	A1	19910822	WO 1990-US6752	19901116

W: CA, JP
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE
PRIORITY APPLN. INFO.: US 1990-477283 19900207
GI



I



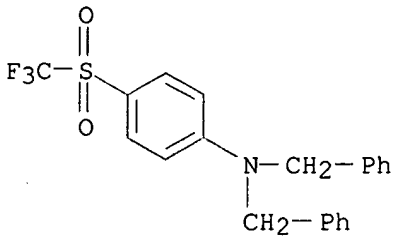


AB An isotropic acrylic copolymer is characterized by recurring monomeric units corresponding to I (R = H, C1-4-alkyl; R1 = C1-6-alkyl; m + m1 .gtoreq.10 and integer; n = 1-20; A = SO2CF3, Q1, Q2; X = H, CN, NO2, CF3). The copolymers exhibit nonlinear optical response, and have utility as a transparent optical component in all-optical and electrooptical light switch and light modulator devices.

IT **141565-25-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(reaction and prepn. of, for nonlinear electro-optical materials)

RN 141565-25-5 CAPLUS

CN Benzenemethanamine, N-(phenylmethyl)-N-[4-[(trifluoromethyl)sulfonyl]phenyl]- (9CI) (CA INDEX NAME)

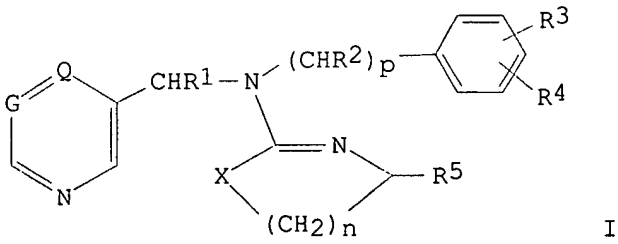


See ref. b

L26 ANSWER 4 OF 60 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 4
ACCESSION NUMBER: 1989:101836 CAPLUS
DOCUMENT NUMBER: 110:101836
TITLE: Pharmaceuticals containing aromatase-inhibiting amine compounds for the treatment of estrogen-dependent diseases
INVENTOR(S): Hirsch, Kenneth S.; Taylor, Harold M.
PATENT ASSIGNEE(S): Lilly, Eli, and Co., USA
SOURCE: U.S., 9 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4767770	A	19880830	US 1984-621416	19840618

OTHER SOURCE(S): MARPAT 110:101836
GI

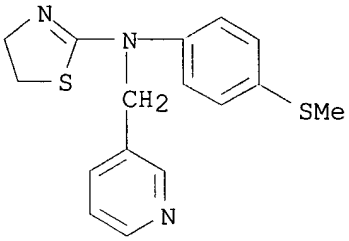


I

AB Estrogen-dependent diseases such as breast carcinoma are treated or prevented by the aromatase inhibitors I (G, Q = CH, N; G .noteq. Q = N; R1, R2 = H, Me; R3, R4 = H, halo, CF3, NO2, alkyl, alkoxy, alkylthio; X = O, S; R5 = H, Me; n = 1, 2; p = 0, 1, 2). In the rat ovarian microsome assay (Brodie et al., 1976), N-(4-chlorophenyl)-N-(4,5-dihydro-2-thiazolyl)-3-pyridinemethanamine inhibited the aromatization of androstenedione-3H with a EC50 of 0.068 .mu.M. Gelatin capsules comprised N-(4-trifluoromethylphenyl)-N-(4,5-dihydro-2-oxazolyl)-3-pyridinemethanamine 250, starch 200, and Mg stearate 10 mg.

IT **89985-16-0**
RL: BIOL (Biological study)
(aromatase inhibition by, estrogen-dependent disease treatment in relation to)

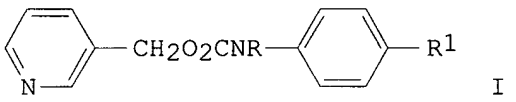
RN 89985-16-0 CAPLUS
CN 3-Pyridinemethanamine, N-(4,5-dihydro-2-thiazolyl)-N-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 5 OF 60 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 5
ACCESSION NUMBER: 1977:567887 CAPLUS
DOCUMENT NUMBER: 87:167887
TITLE: 3-Pyridylmethyl phenylcarbamates
INVENTOR(S): Kilbourn, Edward E.; Weiler, Ernest D.
PATENT ASSIGNEE(S): Rohm and Haas Co., USA
SOURCE: U.S., 4 pp. Division of U.S. 3,925,397.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4033972	A	19770705	US 1975-611759	19750909
US 3925397	A	19751209	US 1974-497542	19740814

PRIORITY APPLN. INFO.: US 1974-497542 19740814
GI

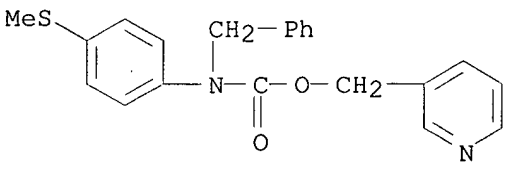


I

AB The title compds. I (R = Me, Bu, allyl, PhCH2, 2-thenyl, octyl; R1 = CN, SMe, NO2), possessing rodenticidal activity against albino rats (Rattus norvegicus) at 50-200 mg/kg, were prepd. by carbamoylation of 3-pyridinecarbinol with 4-R1C6H4NRCOCl.

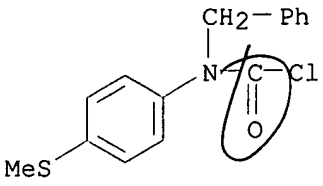
IT **58259-21-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and rodenticidal activity of)

RN 58259-21-5 CAPLUS
CN Carbamic acid, [4-(methylthio)phenyl](phenylmethyl)-, 3-pyridinylmethyl ester (9CI) (CA INDEX NAME)



IT **58259-30-6**

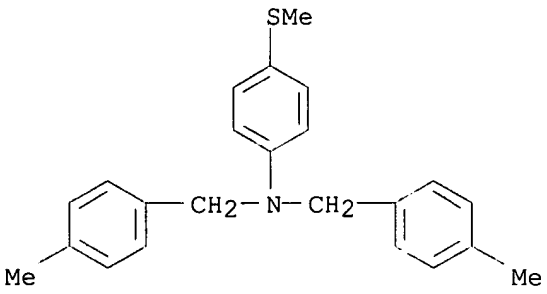
RL: RCT (Reactant)
(reaction of, with pyridinemethanol)
RN 58259-30-6 CAPLUS
CN Carbamic chloride, [4-(methylthio)phenyl](phenylmethyl)- (9CI) (CA INDEX NAME)



L26 ANSWER 6 OF 60 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 6
ACCESSION NUMBER: 1977:197939 CAPLUS
DOCUMENT NUMBER: 86:197939
TITLE: Photoconductor elements containing substituted aniline photoconductor compounds
INVENTOR(S): Mattor, John A.
PATENT ASSIGNEE(S): Scott Paper Co., USA
SOURCE: U.S., 11 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

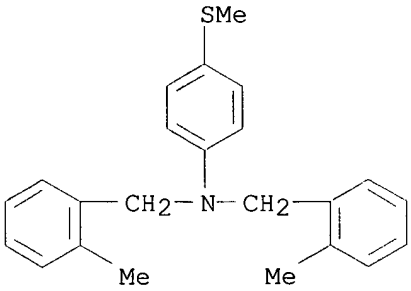
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3994724	A	19761130	US 1969-844186	19690723

AB Derivs. of the N-substituted aniline compds.: 4,4'-oxy- and 4,4'-thiodianiline, p-alkoxy- and p-alkylthioaniline, and unsubstituted or Me-substituted p-phenoxyaniline, are used as electrophotog. photoconductors in the presence of electron-accepting sensitizers, such as the known substituted 9-fluorenone compds. Thus, a photoconductive coating compn. yielding clear images in an electrophotog. member contained polystyrene soln. (1 g polystyrene/10 mL MeCl) 24, N,N-bis(4-methylbenzyl)-4-methylthioaniline 0.15 g, and 9,10-phenanthrenedione 0.25 mL.
IT **62849-32-5 62849-39-2 62849-47-2**
RL: USES (Uses)
(electrophotog. photoconductor)
RN 62849-32-5 CAPLUS
CN Benzenemethanamine, 4-methyl-N-[(4-methylphenyl)methyl]-N-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)

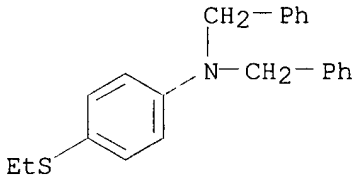


RN 62849-39-2 CAPLUS
CN Benzenemethanamine, 2-methyl-N-[(2-methylphenyl)methyl]-N-[4-

(methylthio)phenyl]- (9CI) (CA INDEX NAME)



RN 62849-47-2 CAPLUS
CN Benzenemethanamine, N-[4-(ethylthio)phenyl]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



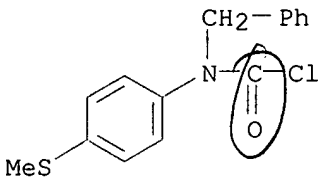
L26 ANSWER 7 OF 60 CAPLUS COPYRIGHT 2001 ACS DUPLICATE 7
ACCESSION NUMBER: 1976:74116 CAPLUS
DOCUMENT NUMBER: 84:74116
TITLE: 3-Pyridylmethyl-(N-substituted phenyl)-carbamate derivatives
INVENTOR(S): Kilbourn, Edward E.; Weiler, Ernest D.
PATENT ASSIGNEE(S): Rohm and Haas Co., USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3925397	A	19751209	US 1974-497542	19740814
NL 7508752	A	19760217	NL 1975-8752	19750722
ZA 7504710	A	19760728	ZA 1975-4710	19750722
IL 47764	A1	19780831	IL 1975-47764	19750722
JP 51041365	A2	19760407	JP 1975-93661	19750731
CS 181184	P	19780331	CS 1975-5523	19750811
BE 832383	A1	19760213	BE 1975-159159	19750813
DE 2536192	A1	19760304	DE 1975-2536192	19750813
FR 2281927	A1	19760312	FR 1975-25261	19750813
DD 121012	C	19760712	DD 1975-187836	19750813
ES 440233	A1	19771116	ES 1975-440233	19750813
CH 602000	A	19780714	CH 1975-10588	19750813
AU 7583986	A1	19770217	AU 1975-83986	19750814
AT 7506340	A	19771115	AT 1975-6340	19750814
US 4033972	A	19770705	US 1975-611759	19750909

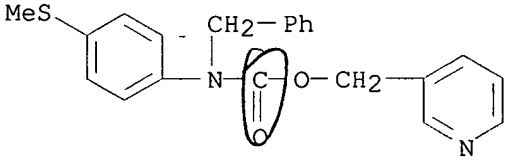
PRIORITY APPLN. INFO.: US 1974-497542 19740814
GI For diagram(s), see printed CA Issue.
AB Twelve pyridylmethyl carbamates I [R = cyano, MeS, NO2; R1 = Me, Bu,

allyl, PhCH2, (CH2)7Me, 2-thenyl], useful as rodenticides, were prepd. by: (a) treating 3-pyridylcarbinol (II) in glyme with NaH in oil, then, after cessation of H evolution, with carbamoyl chloride III in glyme or, (b) adding II in NEt3 to III in benzene. III were prepd. by reacting the secondary amines p-RC6H4NHR1 with COCl2 in an inert solvent at room temp. I [R = NO2, R1 = (CH2)7Me] was inactive, but all other I gave 100% kill of albino rats at 50-200 mg/kg in 3-24 hr.

IT **58259-30-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction with 3-pyridylcarbinol)
RN 58259-30-6 CAPLUS
CN Carbamic chloride, [4-(methylthio)phenyl](phenylmethyl)- (9CI) (CA INDEX NAME)



IT **58259-21-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and rodenticidal activity of)
RN 58259-21-5 CAPLUS
CN Carbamic acid, [4-(methylthio)phenyl](phenylmethyl)-, 3-pyridinylmethyl ester (9CI) (CA INDEX NAME)



L26 ANSWER 8 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2001:816621 CAPLUS
TITLE: Preparation of N-substituted para-(sulfonyl)(hetero)arylamines as COX-2 inhibitors
INVENTOR(S): Krauss, Nancy Elisabeth; Mirzadegan, Taraneh; Smith, David Bernard; Walker, Keith Adrian Murray
PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.
SOURCE: PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

Applicant

n.f. available online no international search report

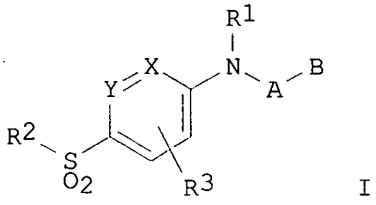
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001083434	A2	20011108	WO 2001-EP4589	20010424

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CO, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2000-200310 P 20000428

GI



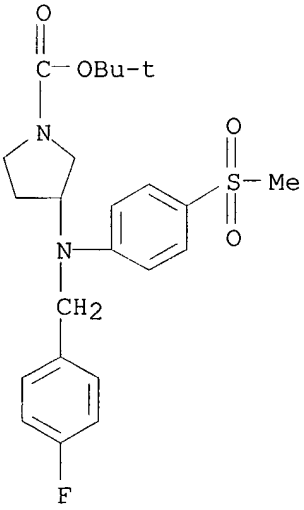
I

AB The title compds. [I; A = (CR2)n; n = 1-3; R = H, alkyl; B = (hetero)aryl; X, Y = CH, N; R1 = alkyl, alkenyl, aryl, etc.; R2 = alkyl, cycloalkyl, aryl, etc.; R3 = H, alkyl, halo, etc.] which have prostaglandin G/H synthase inhibitor activity and are suitable for the treatment of inflammatory diseases, such as myositis, synovitis, rheumatoid arthritis, osteoarthritis, gout, ankylosing spondylitis and bursitis, for the treatment of Alzheimer's disease or of an autoimmune disease such as systemic lupus erythematosus and type I diabetes, were prepd. and formulated. E.g., a multi-step synthesis of I [A = CH2; B = 4-MeC6H4; X, Y = CH; R1 = (CH2)2SO2Me; R2 = NH2; R3 = H] which showed IC50 of < 5.0 .mu.M against COX-2, was given.

IT **372121-14-7P 372121-45-4P**
RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-substituted para-(sulfonyl)(hetero)arylamines as COX-2 inhibitors)

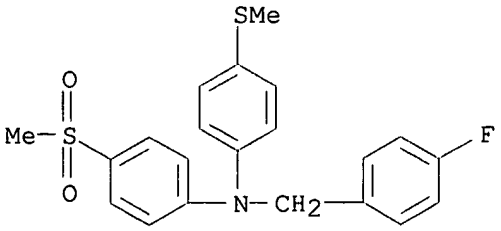
RN 372121-14-7 CAPLUS

CN 1-Pyrrolidinecarboxylic acid, 3-[[(4-fluorophenyl)methyl][4-(methylsulfonyl)phenyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 372121-45-4 CAPLUS

CN Benzenemethanamine, 4-fluoro-N-[4-(methylsulfonyl)phenyl]-N-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



IT **372120-78-0P 372120-79-1P 372120-80-4P**
372120-81-5P 372120-82-6P 372120-83-7P
372120-84-8P 372120-85-9P 372120-86-0P
372120-87-1P 372120-88-2P 372120-89-3P
372120-90-6P 372120-91-7P 372120-92-8P
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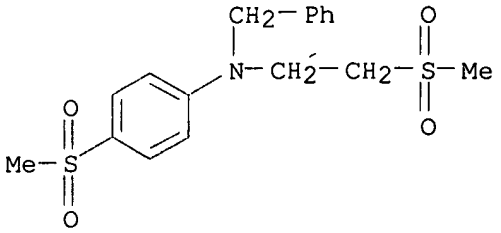
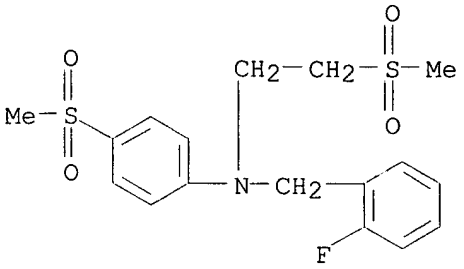
372121-54-5P 372121-55-6P 372121-56-7P
372121-57-8P 372121-58-9P 372121-68-1P
372121-69-2P 372176-74-4P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-substituted para-(sulfonyl)(hetero)arylamines as COX-2 inhibitors)

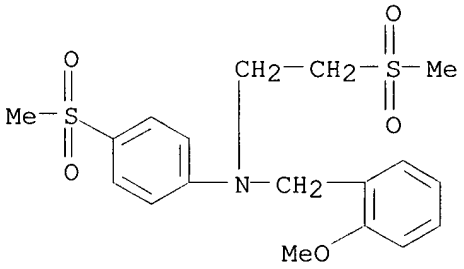
RN 372120-78-0 CAPLUS
CN Benzenemethanamine, N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



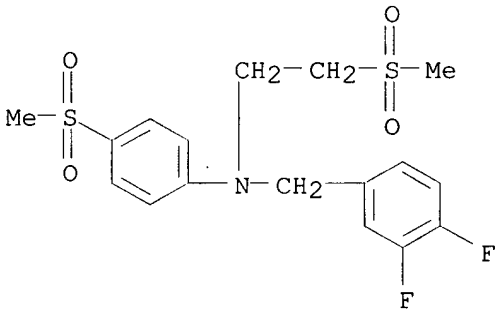
RN 372120-79-1 CAPLUS
CN Benzenemethanamine, 2-fluoro-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



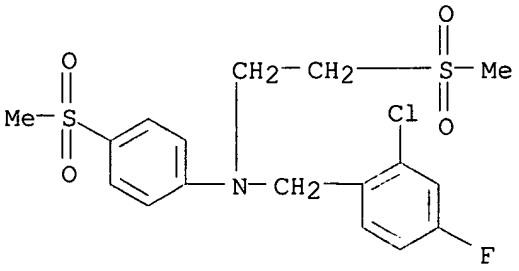
RN 372120-80-4 CAPLUS
CN Benzenemethanamine, 2-methoxy-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



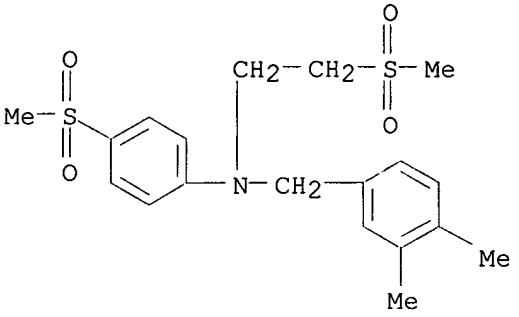
RN 372120-81-5 CAPLUS
CN Benzenemethanamine, 3,4-difluoro-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



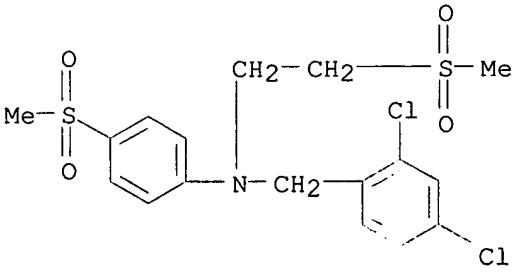
RN 372120-82-6 CAPLUS
CN Benzenemethanamine, 2-chloro-4-fluoro-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



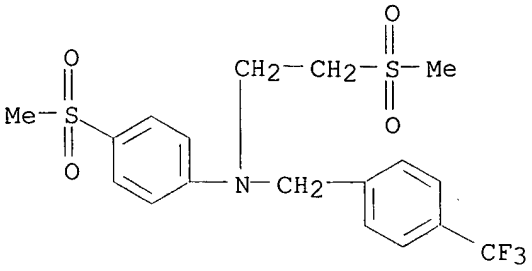
RN 372120-83-7 CAPLUS
CN Benzenemethanamine, 3,4-dimethyl-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



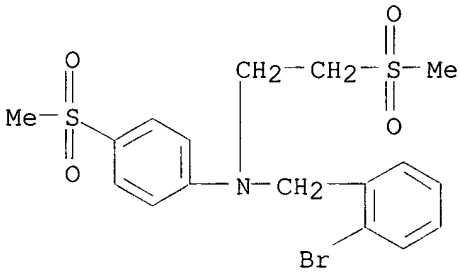
RN 372120-84-8 CAPLUS
CN Benzenemethanamine, 2,4-dichloro-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



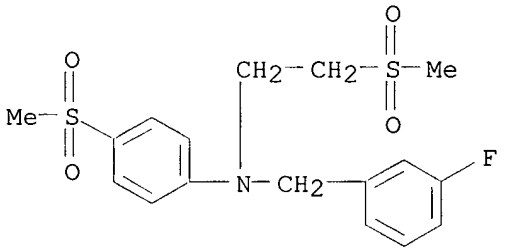
RN 372120-85-9 CAPLUS
CN Benzenemethanamine, N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)



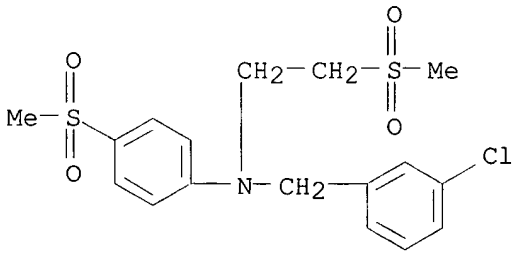
RN 372120-86-0 CAPLUS
CN Benzenemethanamine, 2-bromo-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



RN 372120-87-1 CAPLUS
CN Benzenemethanamine, 3-fluoro-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

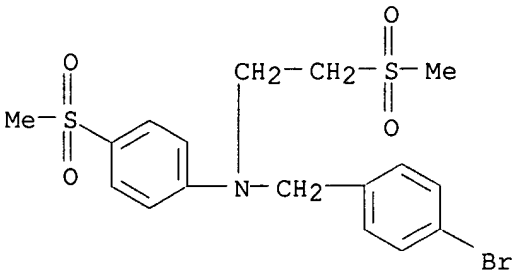


RN 372120-88-2 CAPLUS
CN Benzenemethanamine, 3-chloro-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

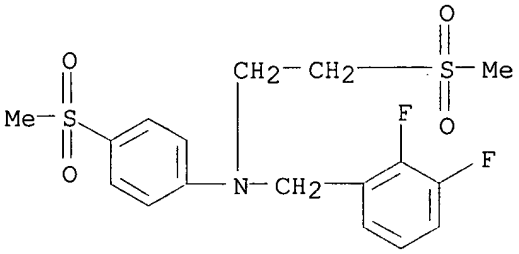


RN 372120-89-3 CAPLUS

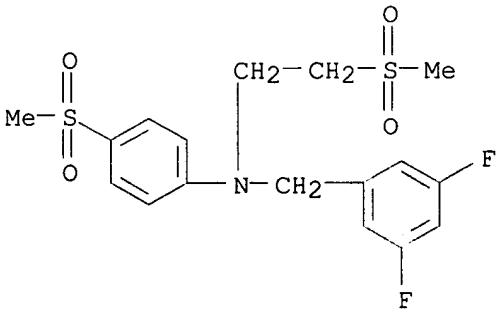
CN Benzenemethanamine, 4-bromo-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



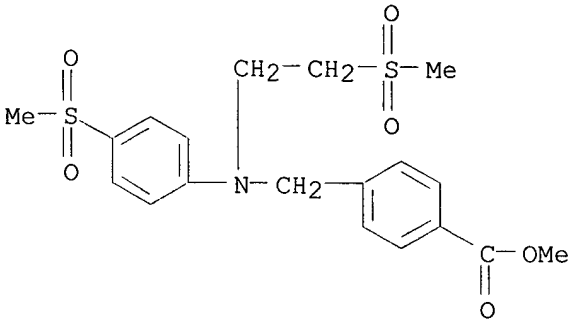
RN 372120-90-6 CAPLUS
CN Benzenemethanamine, 2,3-difluoro-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



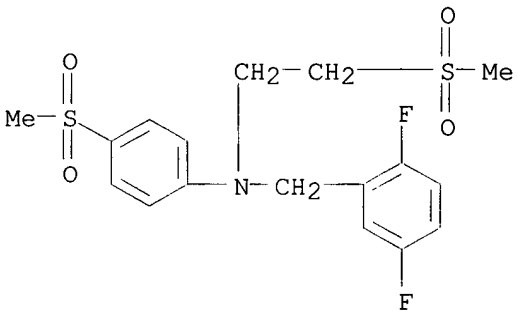
RN 372120-91-7 CAPLUS
CN Benzenemethanamine, 3,5-difluoro-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



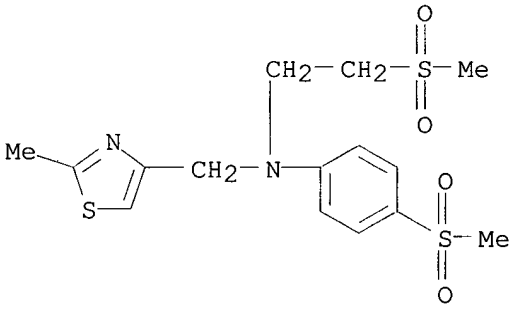
RN 372120-92-8 CAPLUS
CN Benzoic acid, 4-[[[2-(methylsulfonyl)ethyl][4-(methylsulfonyl)phenyl]amino]methyl]-, methyl ester (9CI) (CA INDEX NAME)



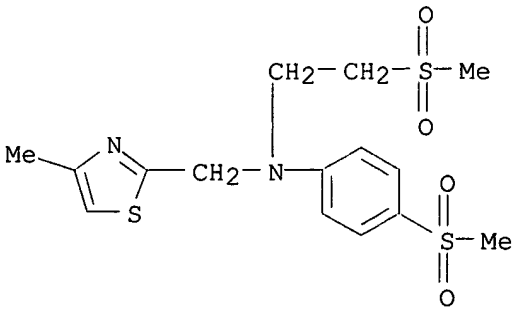
RN 372120-93-9 CAPLUS
CN Benzenemethanamine, 2,5-difluoro-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



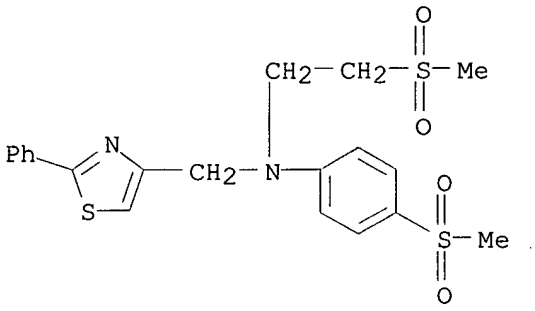
RN 372120-94-0 CAPLUS
CN 4-Thiazolemethanamine, 2-methyl-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



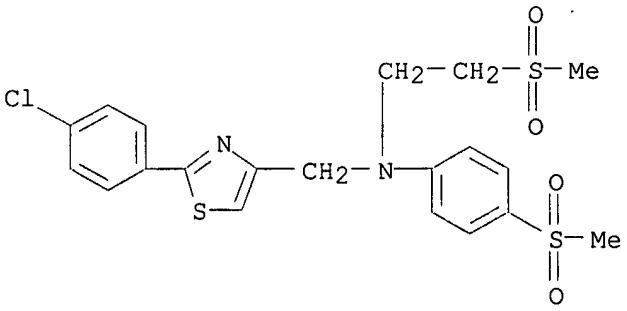
RN 372120-95-1 CAPLUS
CN 2-Thiazolemethanamine, 4-methyl-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



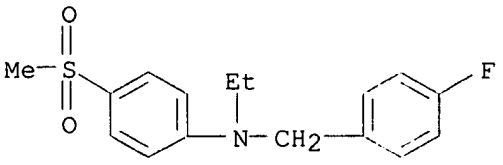
RN 372120-96-2 CAPLUS
CN 4-Thiazolemethanamine, N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]-2-phenyl- (9CI) (CA INDEX NAME)



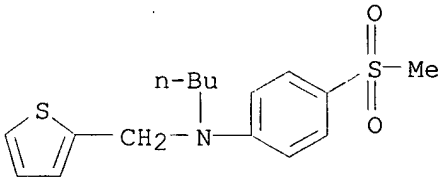
RN 372120-97-3 CAPLUS
CN 4-Thiazolemethanamine, 2-(4-chlorophenyl)-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



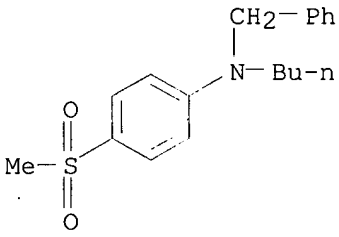
RN 372120-98-4 CAPLUS
CN Benzenemethanamine, N-ethyl-4-fluoro-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



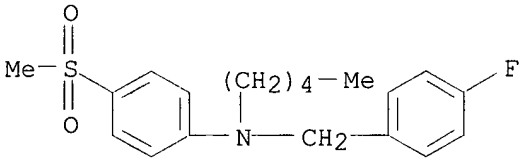
RN 372120-99-5 CAPLUS
CN 2-Thiophenemethanamine, N-butyl-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



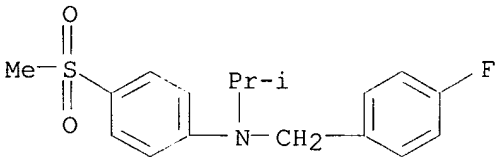
RN 372121-00-1 CAPLUS
CN Benzenemethanamine, N-butyl-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



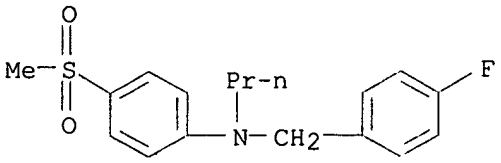
RN 372121-01-2 CAPLUS
CN Benzenemethanamine, 4-fluoro-N-[4-(methylsulfonyl)phenyl]-N-pentyl- (9CI) (CA INDEX NAME)



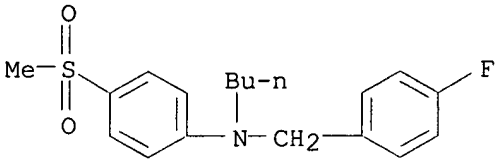
RN 372121-02-3 CAPLUS
CN Benzenemethanamine, 4-fluoro-N-(1-methylethyl)-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



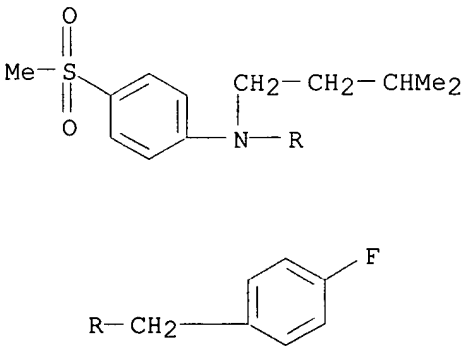
RN 372121-03-4 CAPLUS
CN Benzenemethanamine, 4-fluoro-N-[4-(methylsulfonyl)phenyl]-N-propyl- (9CI) (CA INDEX NAME)



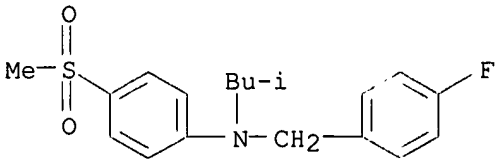
RN 372121-04-5 CAPLUS
CN Benzenemethanamine, N-butyl-4-fluoro-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



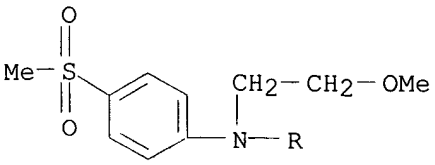
RN 372121-05-6 CAPLUS
CN Benzenemethanamine, 4-fluoro-N-(3-methylbutyl)-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

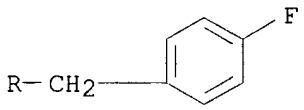


RN 372121-06-7 CAPLUS
CN Benzenemethanamine, 4-fluoro-N-(2-methylpropyl)-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

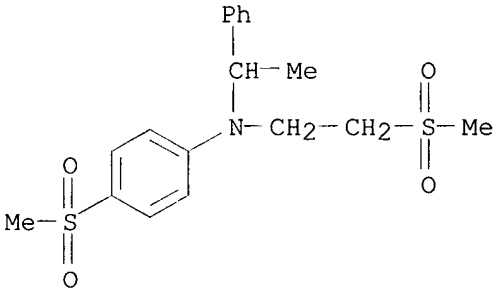


RN 372121-07-8 CAPLUS
CN Benzenemethanamine, 4-fluoro-N-(2-methoxyethyl)-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

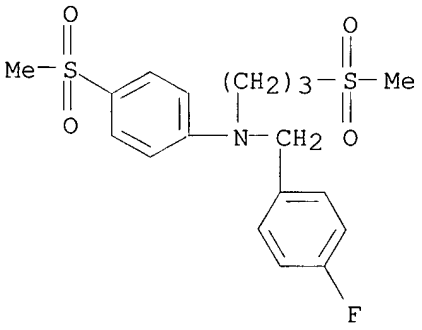




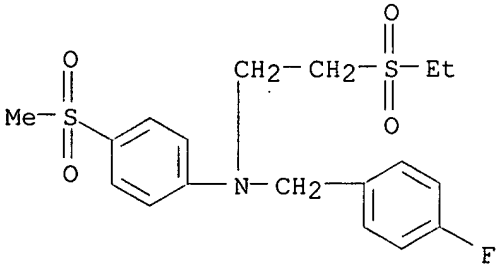
RN 372121-08-9 CAPLUS
CN Benzenemethanamine, .alpha.-methyl-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



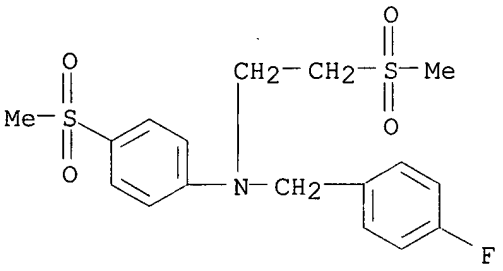
RN 372121-09-0 CAPLUS
CN Benzenemethanamine, 4-fluoro-N-[4-(methylsulfonyl)phenyl]-N-[3-(methylsulfonyl)propyl]- (9CI) (CA INDEX NAME)



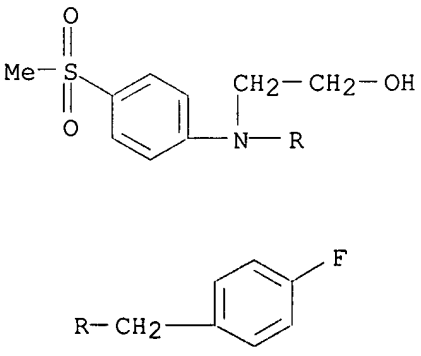
RN 372121-10-3 CAPLUS
CN Benzenemethanamine, N-[2-(ethylsulfonyl)ethyl]-4-fluoro-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



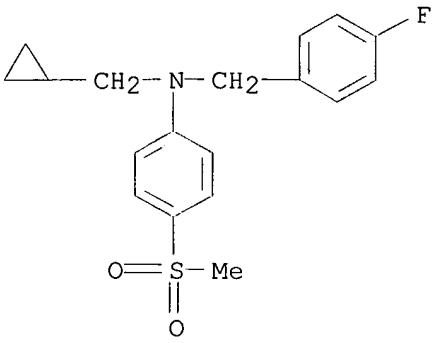
RN 372121-11-4 CAPLUS
CN Benzenemethanamine, 4-fluoro-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



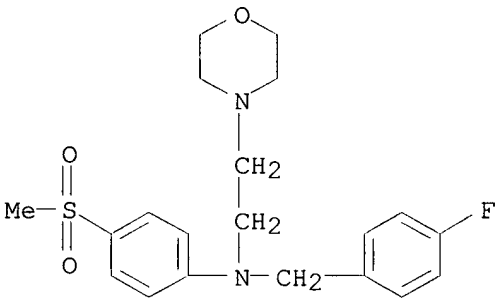
RN 372121-12-5 CAPLUS
CN Ethanol, 2-[[(4-fluorophenyl)methyl][4-(methylsulfonyl)phenyl]amino]- (9CI) (CA INDEX NAME)



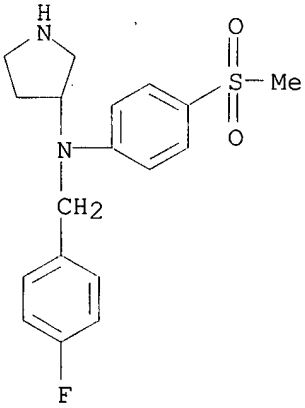
RN 372121-13-6 CAPLUS
CN Benzenemethanamine, N-(cyclopropylmethyl)-4-fluoro-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



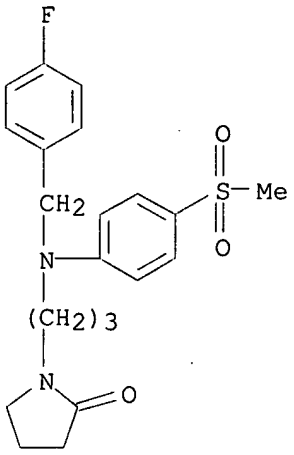
RN 372121-15-8 CAPLUS
CN 4-Morpholineethanamine, N-[(4-fluorophenyl)methyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



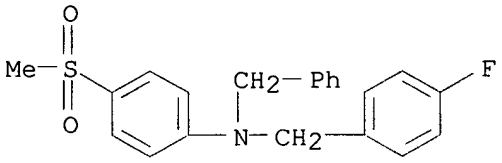
RN 372121-16-9 CAPLUS
CN 3-Pyrrolidinamine, N-[(4-fluorophenyl)methyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



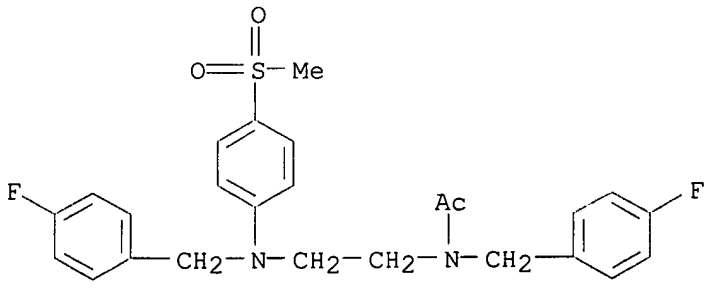
RN 372121-17-0 CAPLUS
CN 2-Pyrrolidinone, 1-[3-[[(4-fluorophenyl)methyl][4-(methylsulfonyl)phenyl]amino]propyl]- (9CI) (CA INDEX NAME)



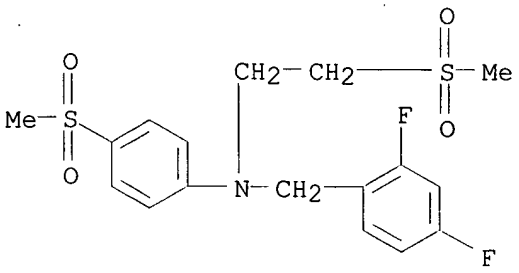
RN 372121-18-1 CAPLUS
CN Benzenemethanamine, 4-fluoro-N-[4-(methylsulfonyl)phenyl]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



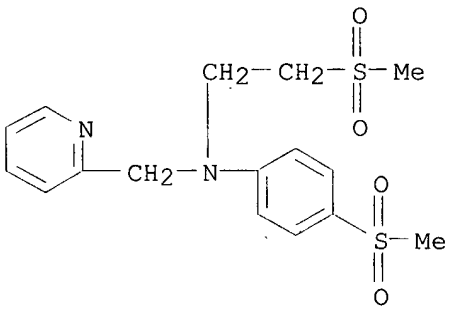
RN 372121-19-2 CAPLUS
CN Acetamide, N-[(4-fluorophenyl)methyl]-N-[2-[[(4-fluorophenyl)methyl][4-(methylsulfonyl)phenyl]amino]ethyl]- (9CI) (CA INDEX NAME)



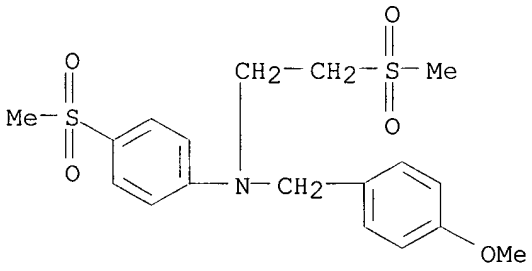
RN 372121-20-5 CAPLUS
CN Benzenemethanamine, 2,4-difluoro-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



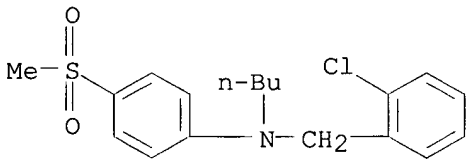
RN 372121-21-6 CAPLUS
CN 2-Pyridinemethanamine, N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



RN 372121-22-7 CAPLUS
CN Benzenemethanamine, 4-methoxy-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

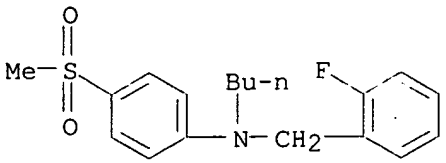


RN 372121-23-8 CAPLUS
CN Benzenemethanamine, N-butyl-2-chloro-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

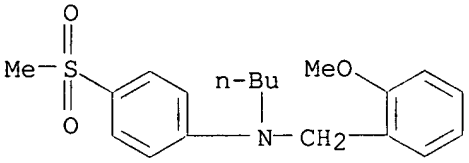


RN 372121-24-9 CAPLUS
CN Benzenemethanamine, N-butyl-2-fluoro-N-[4-(methylsulfonyl)phenyl]- (9CI)

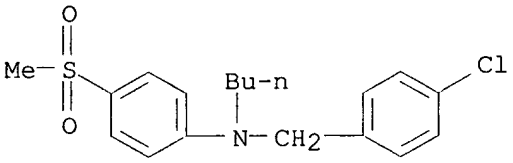
(CA INDEX NAME)



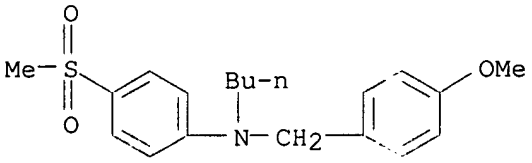
RN 372121-25-0 CAPLUS
CN Benzenemethanamine, N-butyl-2-methoxy-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



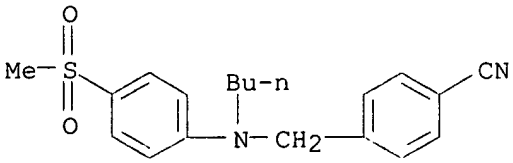
RN 372121-26-1 CAPLUS
CN Benzenemethanamine, N-butyl-4-chloro-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



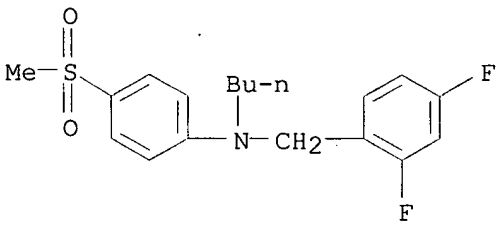
RN 372121-27-2 CAPLUS
CN Benzenemethanamine, N-butyl-4-methoxy-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



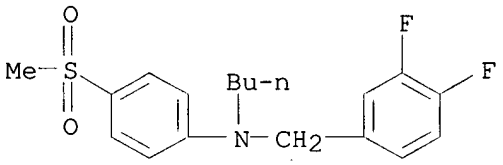
RN 372121-28-3 CAPLUS
CN Benzonitrile, 4-[[butyl[4-(methylsulfonyl)phenyl]amino]methyl]- (9CI) (CA INDEX NAME)



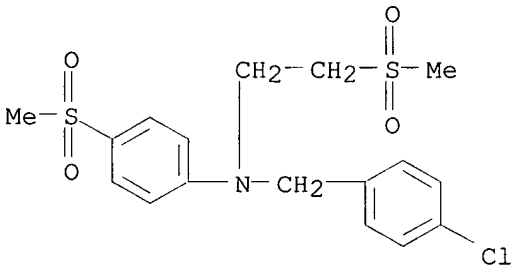
RN 372121-29-4 CAPLUS
CN Benzenemethanamine, N-butyl-2,4-difluoro-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



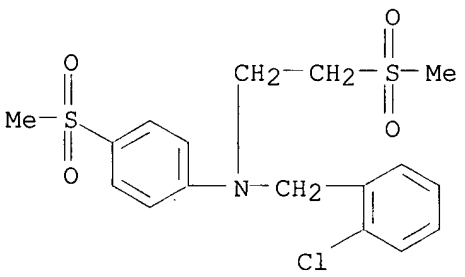
RN 372121-30-7 CAPLUS
CN Benzenemethanamine, N-butyl-3,4-difluoro-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



RN 372121-31-8 CAPLUS
CN Benzenemethanamine, 4-chloro-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

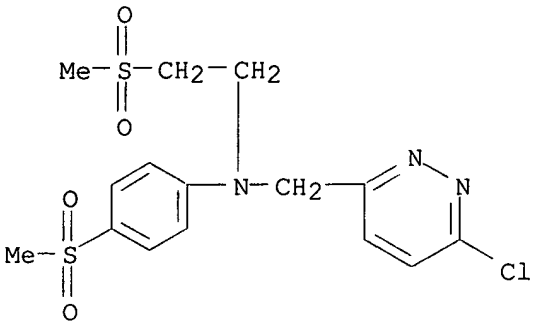


RN 372121-32-9 CAPLUS
CN Benzenemethanamine, 2-chloro-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

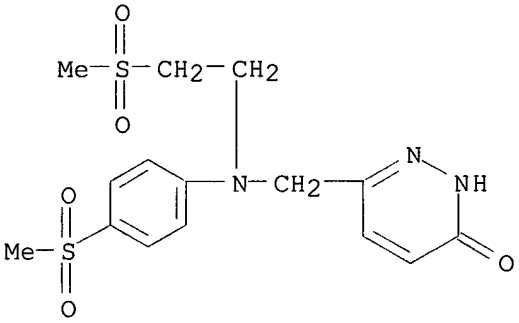


RN 372121-33-0 CAPLUS

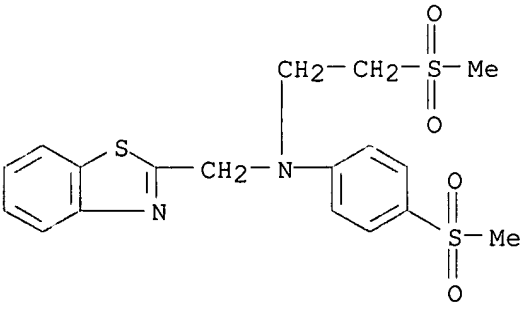
CN 3-Pyridazinemethanamine, 6-chloro-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



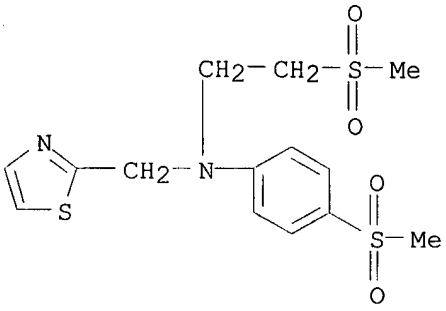
RN 372121-34-1 CAPLUS
CN 3(2H)-Pyridazinone, 6-[[[2-(methylsulfonyl)ethyl][4-(methylsulfonyl)phenyl]amino]methyl]- (9CI) (CA INDEX NAME)



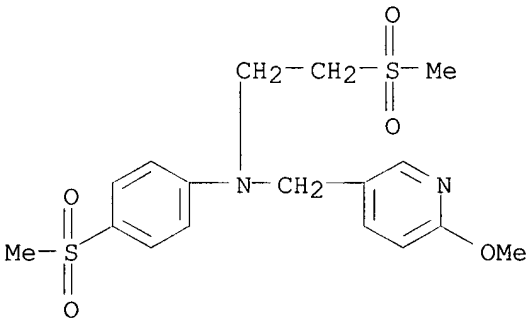
RN 372121-35-2 CAPLUS
CN 2-Benzothiazolemethanamine, N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



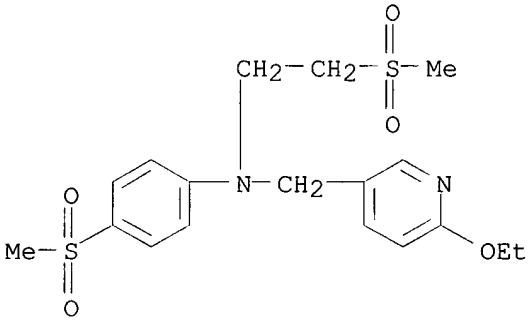
RN 372121-38-5 CAPLUS
CN 2-Thiazolemethanamine, N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



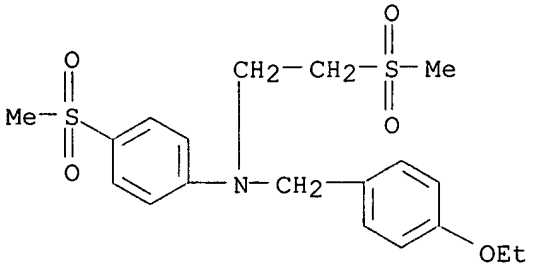
RN 372121-39-6 CAPLUS
CN 3-Pyridinemethanamine, 6-methoxy-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



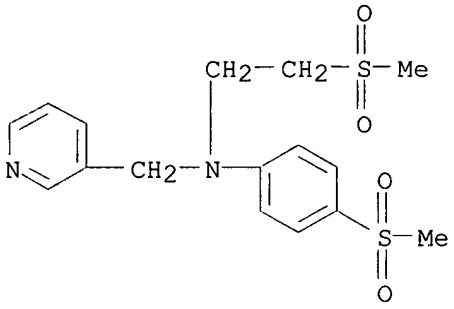
RN 372121-40-9 CAPLUS
CN 3-Pyridinemethanamine, 6-ethoxy-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



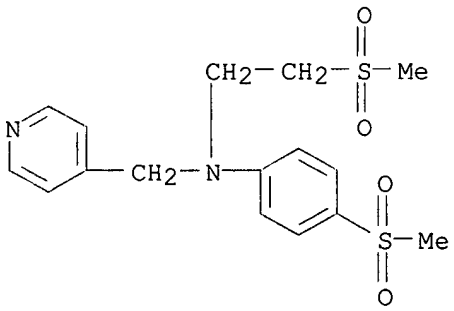
RN 372121-41-0 CAPLUS
CN Benzenemethanamine, 4-ethoxy-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



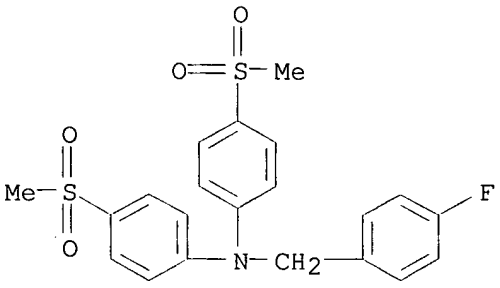
RN 372121-42-1 CAPLUS
CN 3-Pyridinemethanamine, N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



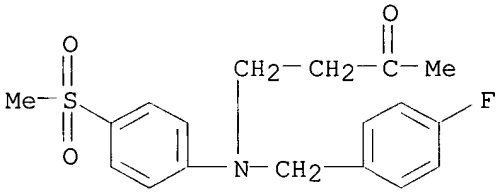
RN 372121-43-2 CAPLUS
CN 4-Pyridinemethanamine, N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



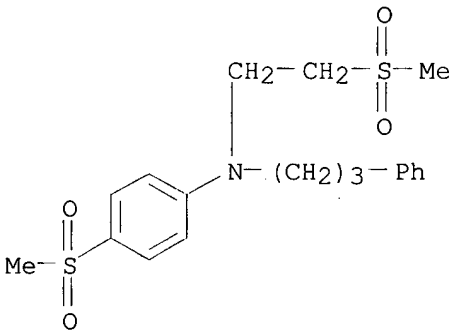
RN 372121-44-3 CAPLUS
CN Benzenemethanamine, 4-fluoro-N,N-bis[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



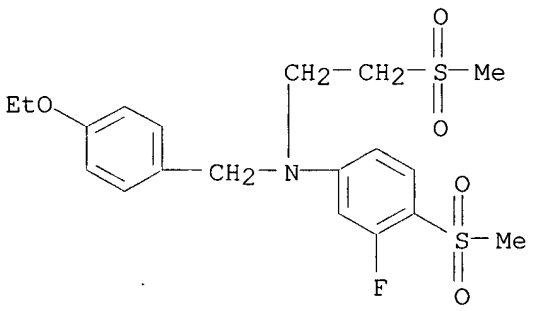
RN 372121-46-5 CAPLUS
CN 2-Butanone, 4-[[(4-fluorophenyl)methyl][4-(methylsulfonyl)phenyl]amino]- (9CI) (CA INDEX NAME)



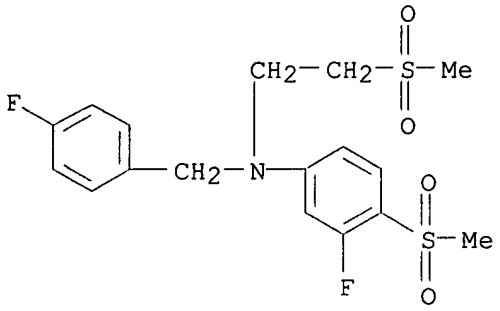
RN 372121-47-6 CAPLUS
CN Benzenepropanamine, N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



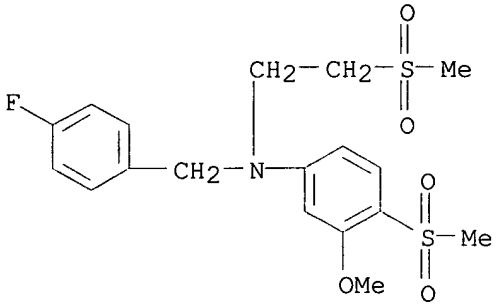
RN 372121-48-7 CAPLUS
CN Benzenemethanamine, 4-ethoxy-N-[3-fluoro-4-(methylsulfonyl)phenyl]-N-[2-(methylsulfonyl)ethyl]- (9CI) (CA INDEX NAME)



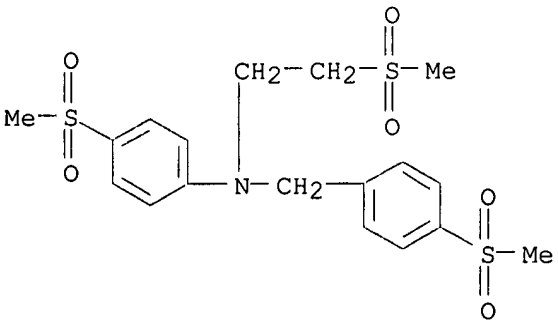
RN 372121-49-8 CAPLUS
CN Benzenemethanamine, 4-fluoro-N-[3-fluoro-4-(methylsulfonyl)phenyl]-N-[2-(methylsulfonyl)ethyl]- (9CI) (CA INDEX NAME)



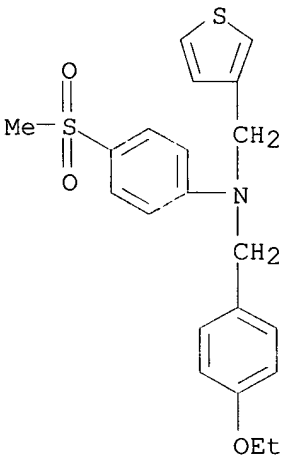
RN 372121-50-1 CAPLUS
CN Benzenemethanamine, 4-fluoro-N-[3-methoxy-4-(methylsulfonyl)phenyl]-N-[2-(methylsulfonyl)ethyl]- (9CI) (CA INDEX NAME)



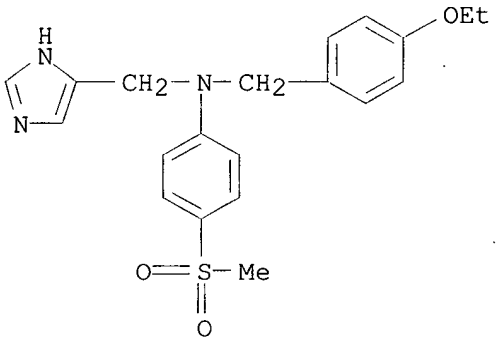
RN 372121-51-2 CAPLUS
CN Benzenemethanamine, 4-(methylsulfonyl)-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



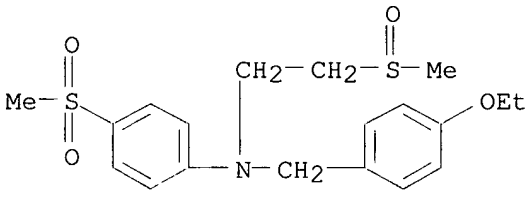
RN 372121-52-3 CAPLUS
CN 3-Thiophenemethanamine, N-[(4-ethoxyphenyl)methyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



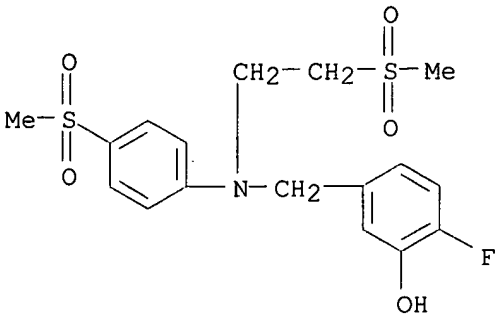
RN 372121-53-4 CAPLUS
CN 1H-Imidazole-4-methanamine, N-[(4-ethoxyphenyl)methyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



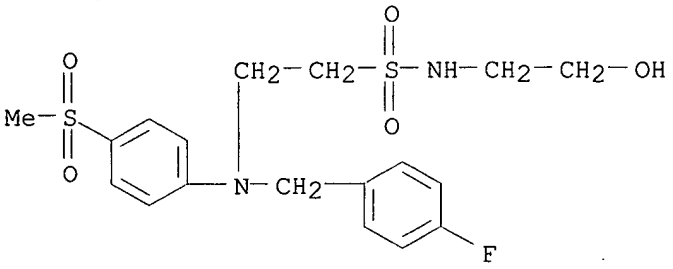
RN 372121-54-5 CAPLUS
CN Benzenemethanamine, 4-ethoxy-N-[2-(methylsulfinyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



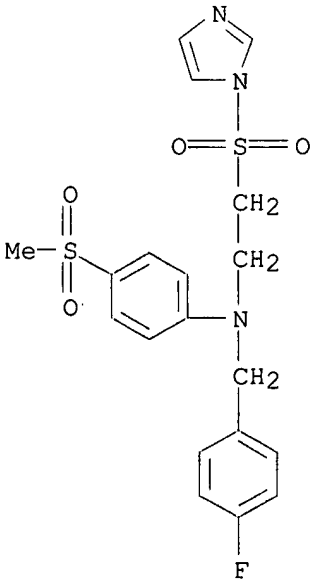
RN 372121-55-6 CAPLUS
CN Phenol, 2-fluoro-5-[[[2-(methylsulfonyl)ethyl][4-(methylsulfonyl)phenyl]amino]methyl]- (9CI) (CA INDEX NAME)



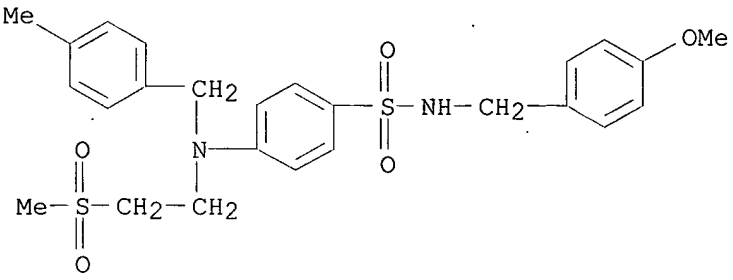
RN 372121-56-7 CAPLUS
CN Ethanesulfonamide, 2-[[(4-fluorophenyl)methyl][4-(methylsulfonyl)phenyl]amino]-N-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



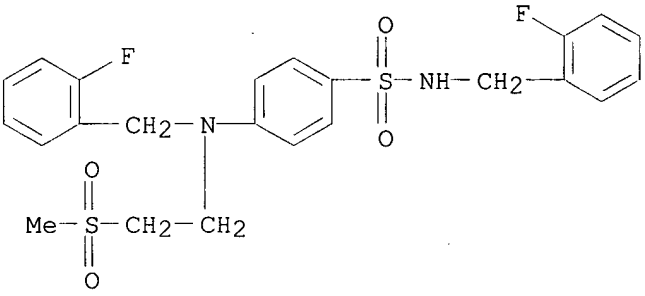
RN 372121-57-8 CAPLUS
CN 1H-Imidazole, 1-[[2-[[(4-fluorophenyl)methyl][4-(methylsulfonyl)phenyl]amino]ethyl]sulfonyl]- (9CI) (CA INDEX NAME)



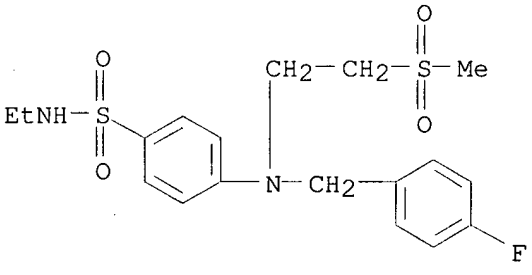
RN 372121-58-9 CAPLUS
CN Benzenesulfonamide, N-[(4-methoxyphenyl)methyl]-4-[[(4-methylphenyl)methyl][2-(methylsulfonyl)ethyl]amino]- (9CI) (CA INDEX NAME)



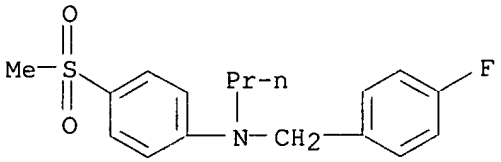
RN 372121-68-1 CAPLUS
CN Benzenesulfonamide, N-[(2-fluorophenyl)methyl]-4-[[(2-fluorophenyl)methyl][2-(methylsulfonyl)ethyl]amino]- (9CI) (CA INDEX NAME)



RN 372121-69-2 CAPLUS
CN Benzenesulfonamide, N-ethyl-4-[[(4-fluorophenyl)methyl][2-(methylsulfonyl)ethyl]amino]- (9CI) (CA INDEX NAME)

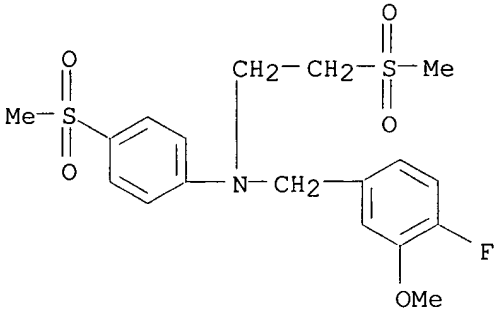


RN 372176-74-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

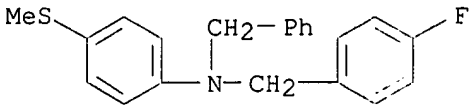


D1—OH

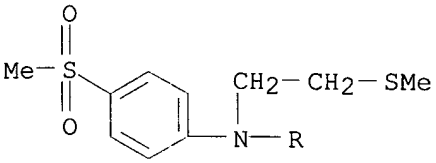
IT **372122-02-6**
RL: RCT (Reactant)
(prepn. of N-substituted para-(sulfonyl)(hetero)arylamines as COX-2 inhibitors)
RN 372122-02-6 CAPLUS
CN Benzenemethanamine, 4-fluoro-3-methoxy-N-[2-(methylsulfonyl)ethyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

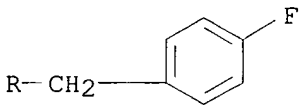


IT **372121-71-6P 372121-76-1P 372121-78-3P**
372121-83-0P 372121-97-6P 372122-00-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of N-substituted para-(sulfonyl)(hetero)arylamines as COX-2 inhibitors)
RN 372121-71-6 CAPLUS
CN Benzenemethanamine, 4-fluoro-N-[4-(methylthio)phenyl]-N-(phenylmethyl)-(9CI) (CA INDEX NAME)

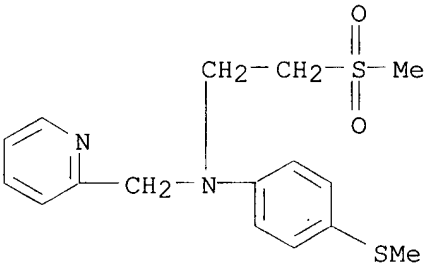


RN 372121-76-1 CAPLUS
CN Benzenemethanamine, 4-fluoro-N-[4-(methylsulfonyl)phenyl]-N-[2-(methylthio)ethyl]- (9CI) (CA INDEX NAME)

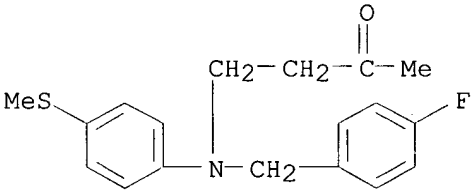




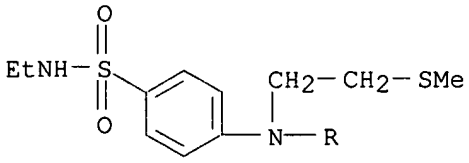
RN 372121-78-3 CAPLUS
CN 2-Pyridinemethanamine, N-[2-(methylsulfonyl)ethyl]-N-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)

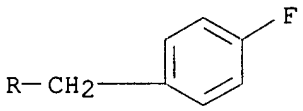


RN 372121-83-0 CAPLUS
CN 2-Butanone, 4-[[(4-fluorophenyl)methyl][4-(methylthio)phenyl]amino]- (9CI) (CA INDEX NAME)

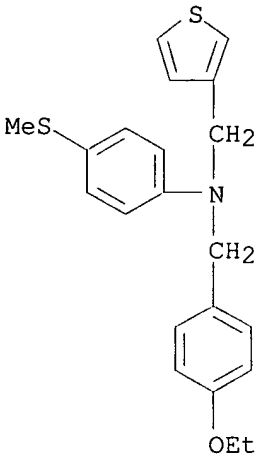


RN 372121-97-6 CAPLUS
CN Benzenesulfonamide, N-ethyl-4-[[(4-fluorophenyl)methyl][2-(methylthio)ethyl]amino]- (9CI) (CA INDEX NAME)





RN 372122-00-4 CAPLUS
CN 3-Thiophenemethanamine, N-[(4-ethoxyphenyl)methyl]-N-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)

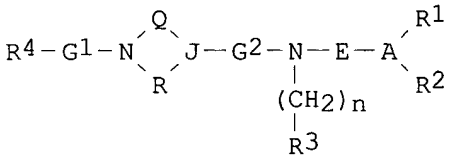


L26 ANSWER 9 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2001:265385 CAPLUS
DOCUMENT NUMBER: 134:295739
TITLE: Preparation of N-aryl-N-(heterocyclylalkyl)piperidinecarboxamides as CCR5 antagonists
INVENTOR(S): Imamura, Shinichi; Hashiguchi, Shohei; Hattori, Taeko; Nishimura, Osamu; Kanzaki, Naoyuki; Baba, Masanori; Sugihara, Yoshihiro
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 392 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001025200	A1	20010412	WO 2000-JP6755	20000929

W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ,

BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
JP 2001302633 A2 20011031 JP 2000-302841 20000929
PRIORITY APPLN. INFO.: JP 1999-282088 A 19991001
JP 2000-46749 A 20000218
OTHER SOURCE(S): MARPAT 134:295739
GI



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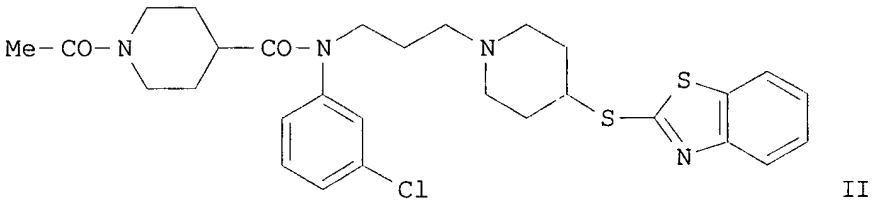


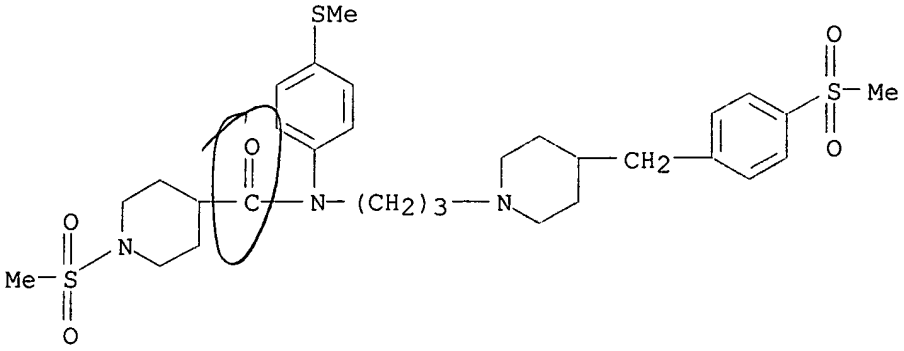
II

AB Title compds. (I) [wherein R1 = H, (un)substituted hydrocarbon or nonarom. heterocycle; R2 = (un)substituted hydrocarbon or nonarom. heterocycle; or R1 and R2 together with A form an (un)substituted heterocycle; A = N or N+(R5).bul.Y-; R5 = hydrocarbon; Y- = counteranion; R3 = (un)substituted (hetero)cycle; n = 0 or 1; R4 = H or (un)substituted hydrocarbon, heterocycle, alkoxy, aryloxy, or amino group; E = (un)substituted divalent aliph. hydrocarbon; G1 = a bond, CO, or SO2; G2 = CO, SO2, NHCO, CONH, or OCO; J = CH or N; Q and R = independently a bond or (un)substituted divalent aliph. hydrocarbon; provided that J = CH when G2 = OCO, that 1 of Q and R is not a bond when the other is a bond, and that each of Q and R is not substituted by oxo group(s) when G1 is a bond; or a salt thereof] were prepd. as potent chemokine receptor CCR5 antagonists. I are useful for the treatment or prevention of the HIV disease in humans (e.g. AIDS). For example, II.bul.HCl was synthesized in 34% yield in a 2-step process involving addn. of TFA to a soln. of 1-tert-butoxycarbonyl-4-(2-benzothiazolylthio)piperidine in CH2Cl2, followed by addn. of AcCN, 1-acetyl-N-(3-chlorophenyl)-N-(3-chloropropyl)-4-piperidinecarboxamide, K2CO3, and KI to the residue and workup. II.bul.HCl showed 96% inhibition of HIV-1 infection in transformant MAGI-CCR5 cells. In addn., 42 example compds. were tested and gave inhibition rates of 82% to 100% at 1.0 .mu.M in a CCR5 antagonistic activity assay.

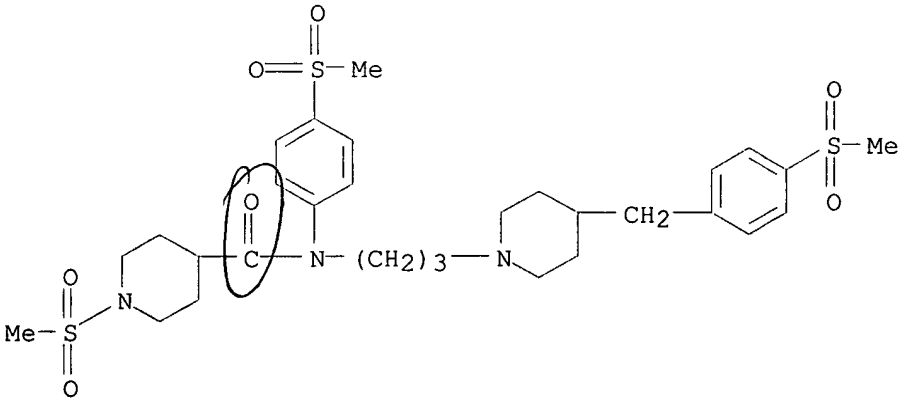
IT **333993-70-7P**, N-[4-(Methylthio)phenyl]-1-(methylsulfonyl)-N-[3-[4-[4-(methylsulfonyl)benzyl]-1-piperidinyl]propyl]-4-piperidinecarboxamide
RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-aryl-N-(heterocyclylalkyl)piperidinecarboxamide CCR5 antagonists by amidation of N-(arylheterocyclyl)alkylamines or addn. of heterocycles to N-aryl-N-(haloalkyl)piperidinecarboxamides)

RN 333993-70-7 CAPLUS

CN 4-Piperidinecarboxamide, 1-(methylsulfonyl)-N-[3-[4-[[4-(methylsulfonyl)phenyl]methyl]-1-piperidinyl]propyl]-N-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



IT **333993-71-8P**, 1-(Methylsulfonyl)-N-[3-[4-[4-(methylsulfonyl)benzyl]-1-piperidinyl]propyl]-N-[4-(methylsulfonyl)phenyl]-4-piperidinecarboxamide
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-aryl-N-(heterocyclylalkyl)piperidinecarboxamide CCR5 antagonists by amidation of N-(arylheterocyclyl)alkylamines or addn. of heterocycles to N-aryl-N-(haloalkyl)piperidinecarboxamides)
RN 333993-71-8 CAPLUS
CN 4-Piperidinecarboxamide, 1-(methylsulfonyl)-N-[4-(methylsulfonyl)phenyl]-N-[3-[4-[[4-(methylsulfonyl)phenyl]methyl]-1-piperidinyl]propyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6
REFERENCE(S):
(1) Bhuniya; CAPLUS
(2) Bhuniya; SYNTH COMMUN 1994, V24(3), P375 CAPLUS
(3) Bolhofer, W; US 4203988 A 1980 CAPLUS
(4) Pharmaceutical Discovery Corp; WO 9422861 A 1994 CAPLUS
(5) Porter, R; WO 9917773 A 1999 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

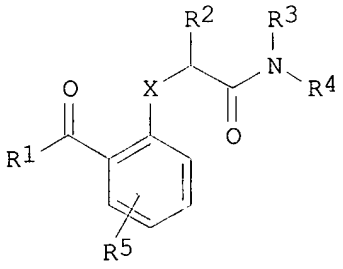
L29 ANSWER 10 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2001:185739 CAPLUS
DOCUMENT NUMBER: 134:237301
TITLE: Preparation of benzophenones and phenyl heteroaryl ketones as inhibitors of reverse transcriptase
INVENTOR(S): Andrews, Clarence Webster; Chan, Joseph Howing; Freeman, George Andrew; Romines, Karen Rene; Tidwell,

Jeffrey H.
PATENT ASSIGNEE(S): Glaxo Group Limited, UK; Pianetti, Pascal Maurice Charles
SOURCE: PCT Int. Appl., 436 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

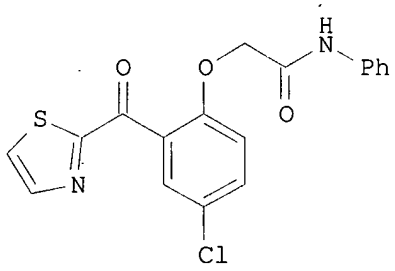
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001017982	A1	20010315	WO 2000-EP8487	20000831

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: GB 1999-20872 A 19990904
OTHER SOURCE(S): MARPAT 134:237301
GI



I

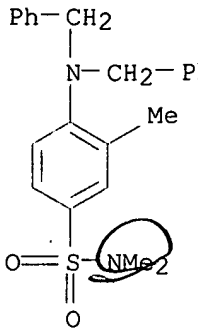


II

AB The title compds. [I; X = C, O, N; R1 = alkyl, cycloalkyl, (un)substituted aryl, etc.; R2 = H, halo, alkyl; R3, R4 = H, OH, (un)substituted heterocyclyl, etc.; R5 = H, halo, alkyl, etc.], useful in the treatment of HIV infections, were prepd. E.g., a 4-step synthesis of the ketone II which showed IC50 of between 101 nM and 1,000 nM against HIV-1 in MT4 cell assay, was described.

IT **329946-24-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of benzophenones and Ph heteroaryl ketones as inhibitors of reverse transcriptase)

RN 329946-24-9 CAPLUS
CN Benzenesulfonamide, 4-[bis(phenylmethyl)amino]-N,N,3-trimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8
REFERENCE(S): (1) Aschwenden, W; US 4883815 A 1989 CAPLUS
(2) Brandl, E; SCI PHARM 1971, V39(4), P267 CAPLUS
(3) Capuano; JUSTUS LIEBIGS ANN CHEM 1968, V712, P73 CAPLUS
(4) Clyn-Bila, E; FR 1552793 A 1969 CAPLUS
(5) Hashimoto, M; US 4207234 A 1980 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 11 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1998:744940 CAPLUS
DOCUMENT NUMBER: 130:25338
TITLE: Inhibitors of protein isoprenyl transferases
INVENTOR(S): Sebti, Said M.; Hamilton, Andrew D.; Augeri, David J.; Barr, Kenneth J.; Donner, Bernard G.; Fakhoury, Stephen A.; Janowick, David A.; Kalvin, Douglas M.; Larsen, John J.; Liu, Gang; O'Connor, Stephen J.; Rosenberg, Saul H.; Shen, Wang; Swenson, Rolf E.; Sorensen, Bryan K.; Sullivan, Gerard M.; Szczepankiewicz, Bruce G.; et al.
PATENT ASSIGNEE(S): University of Pittsburgh, USA
SOURCE: PCT Int. Appl., 848 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9850029	A1	19981112	WO 1998-US9296	19980507
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9874733	A1	19981127	AU 1998-74733	19980507
EP 986384	A1	20000322	EP 1998-922122	19980507
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

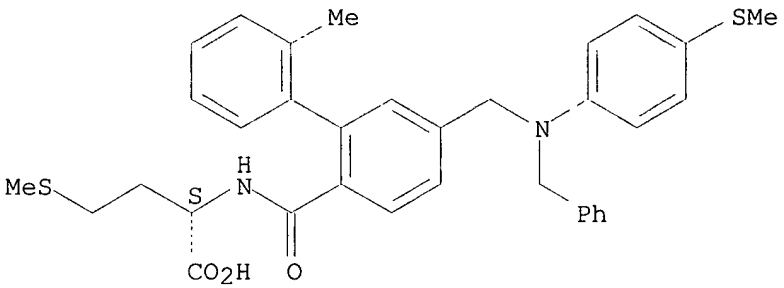
PRIORITY APPLN. INFO.: US 1997-852858 A 19970507
WO 1998-US9296 W 19980507
OTHER SOURCE(S): MARPAT 130:25338
AB Compds. R3-Z-L1-aryl [aryl is a benzene ring having certain substituents R1, R2, R4; L1 is absent or is L4NR5L5, L4OL5, L4S(O)mL5 (m = 0-2), etc.,

where L4 and L5 are absent or alkylene, alkenylene, R5 is H, alkanoyl; Z is a covalent bond, O, S(O)q (q = 0-2), NH or imino; R3 = H, aryl, fluorenyl, heterocyclyl, cycloalkyl, etc.] were prepd. as inhibitors of protein isoprenyl transferases. Thus, N-[4-[(R)-thiazolidin-4-ylcarbonylamino]-2-phenylbenzoyl]methionine Me ester hydrochloride, prepd. via amidation reaction, showed 92% inhibition of farnesyl transferase at 1x10-6 M.

IT **216232-65-4P 216233-15-7P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of inhibitors of protein isoprenyl transferases)

RN 216232-65-4 CAPLUS
CN L-Methionine, N-[[2'-methyl-5-[[[4-(methylthio)phenyl](phenylmethyl)amino]methyl][1,1'-biphenyl]-2-yl]carbonyl]-, monolithium salt (9CI) (CA INDEX NAME)

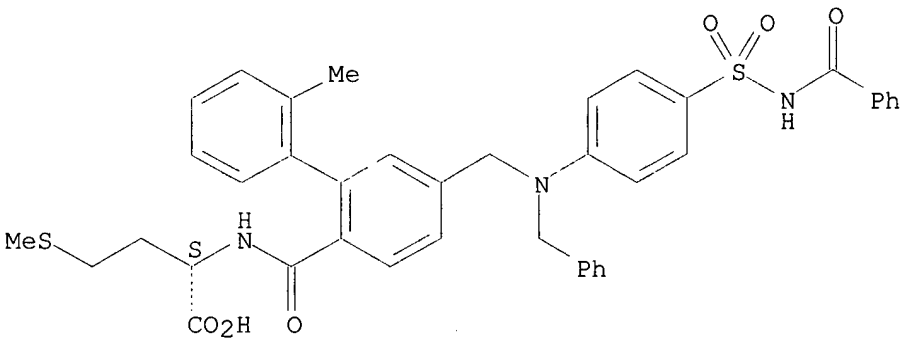
Absolute stereochemistry.



● Li

RN 216233-15-7 CAPLUS
CN L-Methionine, N-[[5-[[[4-[(benzoylamino)sulfonyl]phenyl](phenylmethyl)amino]methyl]-2'-methyl[1,1'-biphenyl]-2-yl]carbonyl]-, monolithium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

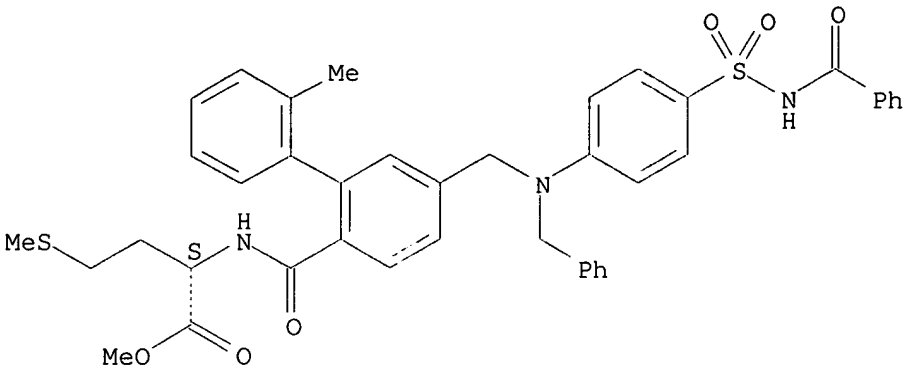


● Li

IT **216229-16-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of inhibitors of protein isoprenyl transferases)

RN 216229-16-2 CAPLUS
CN L-Methionine, N-[[5-[[[4-[(benzoylamino)sulfonyl]phenyl](phenylmethyl)amino]methyl]-2'-methyl[1,1'-biphenyl]-2-yl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 2
REFERENCE(S): (1) Boyle, F; PCT Int Appl 1997
(2) Sebti; PCT Int Appl 1996

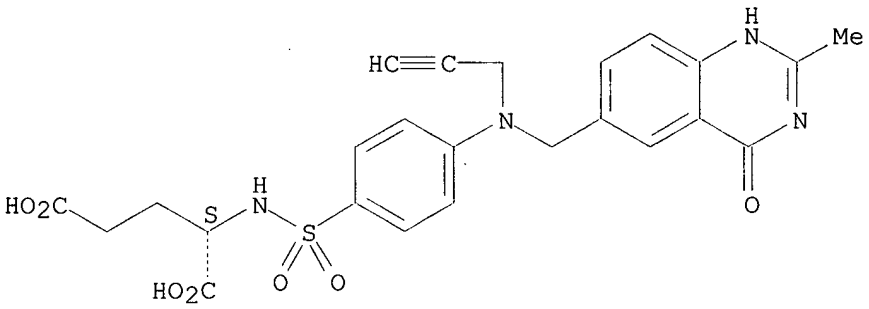
L26 ANSWER 12 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1998:200691 CAPLUS
DOCUMENT NUMBER: 128:265852
TITLE: Effect of combined inhibitors of thymidylate synthase - 5-fluorodeoxyuridine and quinazoline antifolates on murine leukemia cells cultured in vitro
AUTHOR(S): Balinska, Malgorzata; Szablewska, Irmina; Janiszewska, Dorota; Brzezinska, Agnieszka; Pawelczak, Krzysztof
CORPORATE SOURCE: M. Nencki Institute of Experimental Biology, Polish Academy of Sciences, Warsaw, 02-093, Pol.
SOURCE: Anticancer Res. (1997), 17(6D), 4519-4524
CODEN: ANTRD4; ISSN: 0250-7005
PUBLISHER: Anticancer Research
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The synergistic effect of two different inhibitors of thymidylate synthase (FdUrd (5-fluorodeoxyuridine) and sulfonamide derivs.) on murine leukemia cells (5178Y (parental subline) and 5178Y/F (its fluorodeoxyuridine-resistant subline)) in culture was examd. Upon the exposure of cultures from both lines to a slightly inhibitory concn. of FdUrd (1 nM) in combination with 2-desamino-2-methyl-10-propargyl-5,8-dideaza-pteroylsulfoglutamine or -glycine, a synergistic effect of the antimetabolites on cell growth was obsd. This was accompanied by a marked redn. in intracellular concn. in both cell lines of 5,10CH2H4PteGlun; the intracellular concn. of 5,10CH2H4PteGlun in the resistant subline was 3 times higher than in the parental line. The inhibitory effect of combined drugs on the cellular pool in 5178Y cells of the two antimetabolites also depends on the sequence of their addn.; however in the FdUrd resistant cell-line, the dependence on the sequence of the addn. was not obsd. The results obtained strongly suggest that under certain conditions, inhibition of thymidylate synthesis by antifolates is intensified by proprior use of FdUrd.

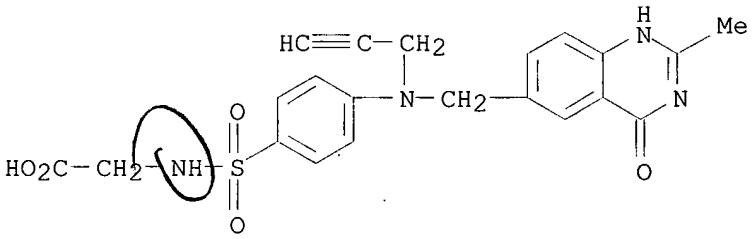
IT **159382-51-1 159382-52-2**
RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(effect of combined inhibitors of thymidylate synthase fluorodeoxyuridine and quinazoline antifolates on murine leukemia cells

cultured in vitro in relation to resistance and mechanism)
RN 159382-51-1 CAPLUS
CN L-Glutamic acid, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159382-52-2 CAPLUS
CN Glycine, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



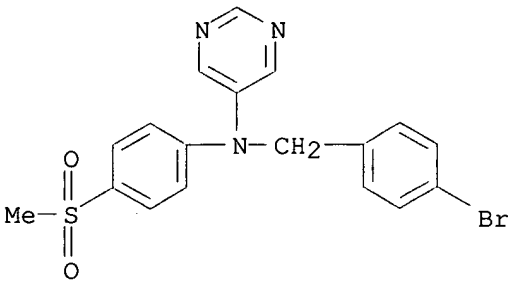
L26 ANSWER 13 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1997:590068 CAPLUS
DOCUMENT NUMBER: 127:242825
TITLE: Studies on aromatase inhibitors IV. Synthesis and biological evaluation of N,N-Disubstituted-5-aminopyrimidine derivatives
AUTHOR(S): Okada, Minoru; Yoden, Toru; Kawaminami, Eiji; Shimada, Yoshiaki; Kudoh, Masafumi; Isomura, Yasuo
CORPORATE SOURCE: Medicinal Chemistry Research II, Institute for Drug Discovery Research, Yamanouchi Pharmaceutical Co., Ltd., Tsukuba City, 305, Japan
SOURCE: Chem. Pharm. Bull. (1997), 45(8), 1293-1299
CODEN: CPBTAL; ISSN: 0009-2363
PUBLISHER: Pharmaceutical Society of Japan
DOCUMENT TYPE: Journal
LANGUAGE: English
AB In order to study the potency of the 5-aminopyrimidine skeleton as an aromatase inhibitor, we synthesized various N,N-disubstituted-5-aminopyrimidine derivs. and evaluated their aromatase-inhibitory activity (in vitro) and their inhibitory activity on pregnant mare serum gonadotropin (PMSG)-induced estrogen synthesis (in vivo). Compds. with the fluoro-substituted benzyl group showed potent aromatase inhibition. Among them, 5-[(4-cyanophenyl)(3,5-difluorobenzyl)amino]pyrimidine (5w, YM553) was a highly potent compd. with an IC50 value of 0.038 nM for

aromatase from human placenta. Its inhibitory effect was approx. four times greater than that of YM511. In addn., YM553 was a weak inhibitor of other enzymes involved in steroid hormone synthesis. These results indicate that YM553, as well as YM511 (a 4-amino-4H-1,2,4-triazole deriv.), is a promising agent for the treatment of estrogen-dependent diseases.

IT **157911-86-9P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(N,N-disubstituted-5-aminopyrimidine derivs. as aromatase inhibitors)

RN 157911-86-9 CAPLUS

CN 5-Pyrimidinamine, N-[(4-bromophenyl)methyl]-N-[4-(methylsulfonyl)phenyl]-(9CI) (CA INDEX NAME)



L26 ANSWER 14 OF 60 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:292155 CAPLUS

DOCUMENT NUMBER: 129:62537

TITLE: The effects of combined antifolates on inhibition of growth of murine leukemia cells cultured in vitro

AUTHOR(S): Balinska, Malgorzata; Szablewska, Irmina; Janiszewska, Dorota; Bartuzi, Katarzyna; Pawelczak, Krzysztof

CORPORATE SOURCE: M. Nencki Institute of Experimental Biology, Polish Academy of Sciences, Warsaw, 02-093, Pol.

SOURCE: Acta Biochim. Pol. (1997), 44(4), 743-750
CODEN: ABPLAF; ISSN: 0001-527X

PUBLISHER: Polish Biochemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

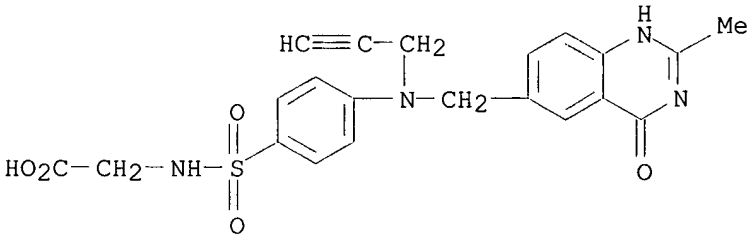
AB The synergistic effect of trimetrexate (TMTX) and sulfonamide derivs. of quinazoline on cultured 5178Y murine leukemia cells was examd. On exposure to slightly inhibitory concns. of TMTX (0.1 nM) in combination with 2-desamino-2-methyl-10-propargyl-5,8-dideaza-pteroyl-sulfoglycine (DMPDDSF) (0.02 .mu.M) a synergistic inhibitory effect of the antifolates on cell growth was obsd. These two drugs in the same combination also caused synergistic inhibition of de novo synthesis of thymidylate in intact cells as measured by tritium release from [5-3H]deoxyuridylate. This was accompanied by a marked redn. in intracellular concn. of 5,10-methylenetetrahydro-pteroyl-polyglutamate (5,10CH2H4PteGlun) (0.2 .mu.M) and dihydropteroyl-polyglutamate (0.12 .mu.M). In these conditions de novo biosynthesis of purine was decreased by 50%. These observations show that growth inhibition by combined antifolates is mediated by intracellular depletion of the substrate of thymidylate synthase - 5,10CH2H4PteGlun. The results obtained strongly suggest that under certain conditions inhibition of thymidylate synthesis by DMPDDSF is intensified by prior application of TMTX - an inhibitor of dihydrofolate reductase.

IT **159382-52-2**
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)

(effect of combined antifolates on inhibition of growth of murine leukemia cells in vitro)

RN 159382-52-2 CAPLUS

CN Glycine, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 15 OF 60 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:292154 CAPLUS

DOCUMENT NUMBER: 129:62536

TITLE: Synergistic effect of 5-fluorodeoxyuridine and quinazoline antifolates on murine leukemia self-cultured in vitro

AUTHOR(S): Balinska, Malgorzata; Szablewska, Irmina; Janiszewska, Dorota; Brzezinska, Agnieszka; Pawelczak, Krzysztof

CORPORATE SOURCE: M. Nencki Institute of Experimental Biology, Polish Academy of Sciences, Warsaw, 02-093, Pol.

SOURCE: Acta Biochim. Pol. (1997), 44(4), 735-742
CODEN: ABPLAF; ISSN: 0001-527X

PUBLISHER: Polish Biochemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

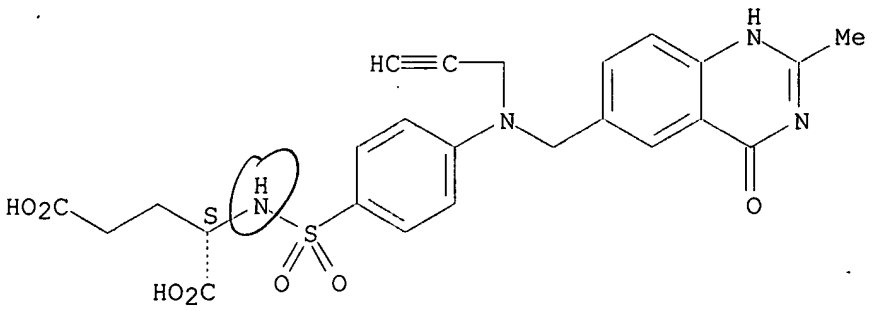
AB The effect of thymidylate synthase inhibitor, fluorodeoxyuridine (FdUrd) was examd. in the culture of murine leukemia cells - 5178Y (parental subline) and its fluorodeoxyuridine resistant subline 5178Y/F. A synergistic effect of the antimetabolite on cell survival was obsd. on exposure of the culture of either line to a slightly inhibitory concn. of FdUrd (1 nM) in combination with 2-desamino-2-methyl-10-propargyl-5,8-dideaza-pteroylsulfoglutamate or 2-desamino-2-methyl-10-propargyl-5,8-dideaza-pteroylsulfoglycine. This effect was accompanied by a marked redn., in both cell lines of intracellular concn. of 5,10-methylenetetrahydro-pteroyl-polyglutamate, although its concn. in the resistant subline was 3 times as high as in the parental line. The inhibitory effect of combined drugs on the cellular pool of folates in 5178Y line depended also on the sequence of drug addn., whereas in the FdUrd resistant line this sequence was without any effect. The results obtained strongly suggest that under certain conditions inhibition of thymidylate synthesis by antifolates is intensified by a prior use of FdUrd.

IT **159382-51-1 159382-52-2**
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(synergistic effect of 5-fluorodeoxyuridine and quinazoline antifolates on murine leukemia in vitro)

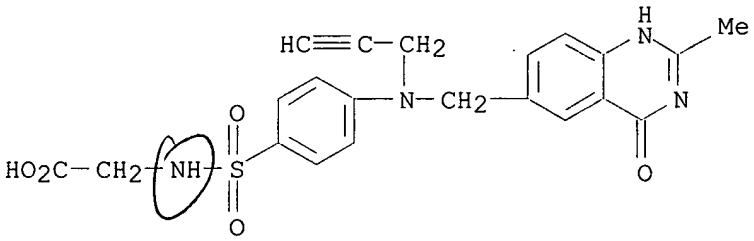
RN 159382-51-1 CAPLUS

CN L-Glutamic acid, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159382-52-2 CAPLUS
CN Glycine, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

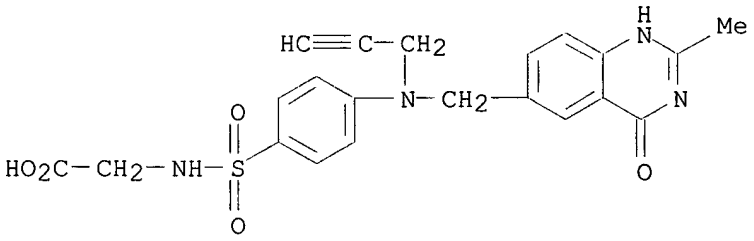


L26 ANSWER 16 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1998:224576 CAPLUS
DOCUMENT NUMBER: 128:289880
TITLE: Effect of combined antifolates-trimetrexate and sulfonylderivatives of 10-propargyl-5,8-dideazafolic acid on folate metabolism-in murine cells cultured in vitro
AUTHOR(S): Balinska, M.; Bartuzi, K.; Janiszewska, D.; Szablewska, I.; Tarnawski, J.; Pawelczak, K.
CORPORATE SOURCE: M. Nencki Institute of Experimental Biology, Polish Academy of Sciences, Warsaw, Pol.
SOURCE: Chem. Biol. Pteridines Folates 1997, Proc. Int. Symp. Pteridines Folates (1997), 169-174. Editor(s): Pfleiderer, Wolfgang; Rokos, Hartmut. Blackwell Wissenschafts-Verlag GmbH: Berlin, Germany. CODEN: 65VBAF
DOCUMENT TYPE: Conference
LANGUAGE: English
AB When tested against murine leukemia 5178Y murine leukemia cells, trimetrexate and the sulfonamide deriv. of 10-propargyl-5,8-dideazafolic acid 2-desamino-2-methyl-10-propargyl-5,8-dideazapteroylsulfoglycine (DMPDDSF) showed synergistic inhibitory effects. The two drugs had synergism in inhibition of thymidylate synthase but did not have high inhibitory activity in inhibition of de novo purine synthesis. The inhibitory effect of the combined drugs on intracellular pools of the folate substrate (5,10-CH2H4PteGlun) and product (H2PteGlun) of thymidylate synthase depended on the sequence of their addn.; when cells were exposed first to trimetrexate followed by DMPDDSF, the inhibitory effects were greater.
IT **159382-52-2**
RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(effect of combined antifolates trimetrexate and sulfonylderivatives of

10-propargyldideazafolic acid on folate metab. in murine leukemia cells in culture in relation to thymidylate synthase inhibition and purine synthesis)

RN 159382-52-2 CAPLUS

CN Glycine, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 17 OF 60 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1996:73234 CAPLUS

DOCUMENT NUMBER: 124:176005

TITLE: Structure-Based Design of Lipophilic Quinazoline Inhibitors of Thymidylate Synthase

AUTHOR(S): Jones, Terence R.; Varney, Michael D.; Webber, Stephen E.; Lewis, Kathleen K.; Marzoni, Gifford P.; Palmer, Cindy L.; Kathardekar, Vinit; Welsh, Katharine M.; Webber, Stephanie; et al.

CORPORATE SOURCE: Agouron Pharmaceuticals Inc., San Diego, CA, 92121, USA

SOURCE: J. Med. Chem. (1996), 39(4), 904-17
CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

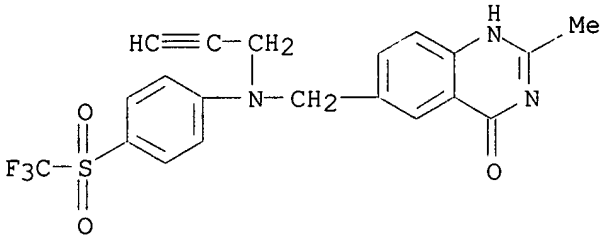
AB To develop novel lipophilic thymidylate synthase (TS) inhibitors, the X-ray structure of Escherichia coli TS in ternary complex with FdUMP and the inhibitor 10-propargyl-5,8-dideazafolic acid (CB3717) was used as a basis for structure-based design. A total of 31 novel lipophilic TS inhibitors, lacking a glutamate residue, were synthesized; 26 of them had in common a N-((3,4-dihydro-2-methyl-6-quinazolinyl)methyl)-N-prop-2-ynylaniline structure in which the aniline was appropriately substituted with simple lipophilic substituents either in position 3 or 4, or in both. Compds. were tested for their inhibition of E. coli TS and human TS and also for their inhibition of the growth in tissue culture of a murine leukemia, a human leukemia, and a thymidine kinase-deficient human adenocarcinoma. The crystal structures of five inhibitors complexed with E. coli TS were detd. Five main conclusions are drawn from this study. (I) a 3-substituent such as CF3, iodo, or ethynyl enhances binding by up to 1 order of magnitude and in the case of CF3 was proven to fill a nearby pocket in the enzyme. (II) A simple strongly electron-withdrawing substituent such as NO2 or CF3SO2 in the 4-position enhances binding by 2 orders of magnitude; it is hypothesized that the transannular dipole so induced interacts favorably with the protein. (III) Attempts to combine the enhancements of I and II in the same mol. were generally unsuccessful. (IV) A 4-C6H5SO2 substituent provided both electron withdrawal and a van der Waal's interaction of the Ph group with a hydrophobic surface at the mouth of the active site. The inhibition (Kis = 12 nM) of human TS by this compd., 7n, showed that C6H5SO2 provided virtually as much binding affinity as the CO-glutamate which it had replaced. (V) The series of compds. were poorly water sol., and also the potent TS inhibition shown by several of them did not translate into good cytotoxicity. Compds. with large cyclic groups linked to position 4 by an SO or SO2 group did,

however, have IC50's in the range 1-5 .mu.M. Of these, 4-(N-((3,4-dihydro-2-methyl-6-quinazolinyl)methyl)-N-prop-2-ynylamino)phenyl Ph sulfone, 7n, had IC50's of about 1 .mu.M and was chosen for further elaboration.

IT **130205-96-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 130205-96-8 CAPLUS

CN 4(1H)-Quinazolinone, 2-methyl-6-[[2-propynyl[4-[(trifluoromethyl)sulfonyl]phenyl]amino]methyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 18 OF 60 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1995:902630 CAPLUS

DOCUMENT NUMBER: 123:313770

TITLE: Preparation of piperidino and piperazino 5-HT2 receptor antagonists and blood platelet aggregation inhibitors

INVENTOR(S): Aoki, Tsuyoshi; Takahashi, Atsuo; Sato, Hiroyasu; Shimanuki, Eiji; Gengyou, Kaoru; Nishimata, Toyoki; Ishigami, Sachiko; Yamada, Shin-ichi; Yamaguchi, Takahiro; et al.

PATENT ASSIGNEE(S): Toa Eiyo Ltd., Japan

SOURCE: Eur. Pat. Appl., 123 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

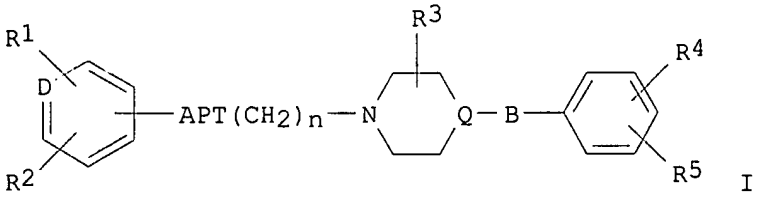
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 661266	A1	19950705	EP 1994-120698	19941227
R: BE, CH, DE, ES, FR, GB, IT, LI, LU, NL				
JP 07242629	A2	19950919	JP 1994-336707	19941226

PRIORITY APPLN. INFO.: JP 1993-346805 19931227

OTHER SOURCE(S): MARPAT 123:313770

GI



I

AB The title compds. [I; A = CH2, CO, sulfonyl; B, T = direct bond, CH2, CO,

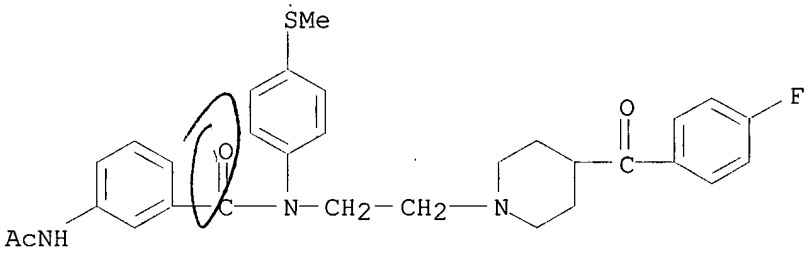
CH(OH), C(:NH); D = CH, N, N.fwdarw.O; P = N, N.fwdarw.O; Q = CH, N; R1, R2 = H, OH, (un)branched alkyl, alkenyl, (un)substituted aralkyl, acyl, (un)substituted NH2, etc.; R3 = H, OH, (un)branched alkyl or alkoxy; R4, R5 = H, OH, halogen, (un)branched alkyl, alkenyl, alkoxy, alkylthio, (un)substituted NH2, SH, etc.; n = 1-6], useful as 5-HT2 receptor antagonists and blood platelet aggregation inhibitors, are prepd. Thus, 4-acetylamino-N-[2-[4-(4-fluorobenzoyl)piperidino]ethyl]-N-(3-methoxyphenyl)benzamide fumarate, m.p. 215-222.degree. (decompn.), prepd. by the reaction of the free base with fumaric acid, demonstrated a IC50 for platelet aggregation in rabbit-derived, platelet-rich plasma of .ltoreq.9.9 x 10-8 M, vs. 1.0-9.9 x 10-7 M for ketanserin.

IT **169948-95-2P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of piperidino and piperazino 5-HT2 receptor antagonists and blood platelet aggregation inhibitors)

RN 169948-95-2 CAPLUS
CN Benzamide, 3-(acetylamino)-N-[2-[4-(4-fluorobenzoyl)-1-piperidinyl]ethyl]-N-[4-(methylthio)phenyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

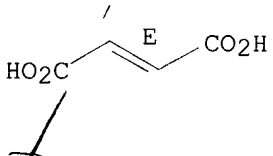
CRN 169948-94-1
CMF C30 H32 F N3 O3 S



CM 2

CRN 110-17-8
CMF C4 H4 O4
CDES 2:E

Double bond geometry as shown.



L26 ANSWER 19 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1995:627690 CAPLUS
DOCUMENT NUMBER: 123:78087
TITLE: Thymidylate synthases from Hymenolepis diminuta and regenerating rat liver: purification, properties, and inhibition by substrate and cofactor analogs
AUTHOR(S): Ciesla, Joanna; Golos, Barbara; Dzik, Jolanta M.; Pawelczak, Krzysztof; Kempny, Michal; Makowski, Maciej; Bretner, Maria; Kulikowski, Tadeusz; Machnicka, Barbara; et al.

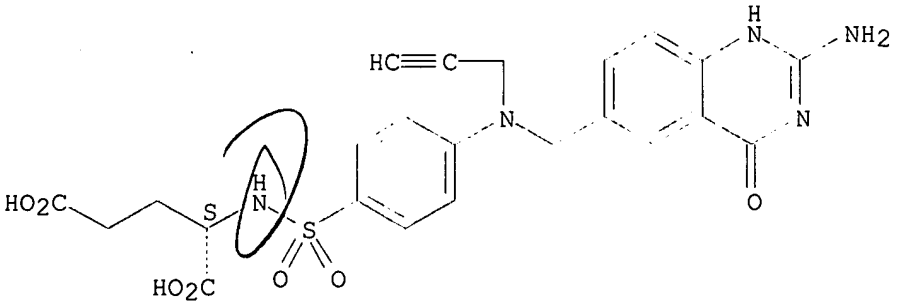
CORPORATE SOURCE: Nencki Institute of Experimental Biology, 3 Pasteur St., Warsaw, 02-093, Pol.
SOURCE: Biochim. Biophys. Acta (1995), 1249(2), 127-36
CODEN: BBACAQ; ISSN: 0006-3002
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Comparative studies of thymidylate synthases, isolated from the tapeworm, Hymenolepis diminuta, and regenerating liver of its host, rat, aimed at a possibility of specific inhibition of the helminthic enzyme, are presented. While similar in structure (dimers with monomer mol. masses of 33.7 kDa and 34.9 kDa, resp.) and parameters describing interactions with substrates and products, the tapeworm and rat enzymes differed in the dependences of reaction velocity on temp. (Arrhenius plots biphasic and linear, resp.). The tapeworm, compared with the host, enzyme was less sensitive to the competitive slow-binding inhibition by 5-fluoro-dUMP and its 2-thio congener, but equally sensitive to inhibition by 4-thio-5-fluoro-dUMP, N4-hydroxy-dCMP and N4-hydroxy-5-fluoro-dCMP, the latter being more potent inhibitor of the parasite enzyme than 5-fluoro-dUMP. .alpha.-Anomer of 5-fluoro-dUMP behaved as a very weak competitive slow-binding inhibitor of both enzymes. Both enzymes differed markedly in sensitivity to inhibition by 10-propargyl-5,8-dideazafolate and its di- and triglutamates (pddPteGlu1-3), with pddPteGlu1 being stronger inhibitor of the mammalian enzyme, but pddPteGlu3 showing opposite specificity. Sulfonamidobenzoylglutamate analog of pddPteGlu (pddPteSO2Glu) and 2-desamino-2-Me deriv. of this analog (CH3pddPteSO2Glu) were weaker inhibitors of both enzymes than the parent compd. Substitution of the glutamyl residue in CH3pddPteSO2Glu with either norvaline or alanine increased inhibition potency, whereas similar substitutions with glycine, valine or phenylglycine were without a distinct effect with the host enzyme but weakened inhibition of the tapeworm enzyme.

IT **159382-50-0 159382-51-1 159382-52-2 159382-53-3 159382-54-4 159382-55-5 159382-56-6**
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(purifn., properties, and inhibition by substrate and cofactor analogs of thymidylate synthases from Hymenolepis diminuta and regenerating rat liver)

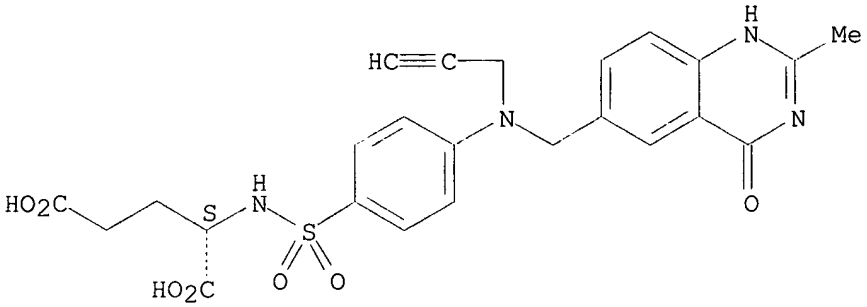
RN 159382-50-0 CAPLUS
CN L-Glutamic acid, N-[[4-[[(2-amino-1,4-dihydro-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

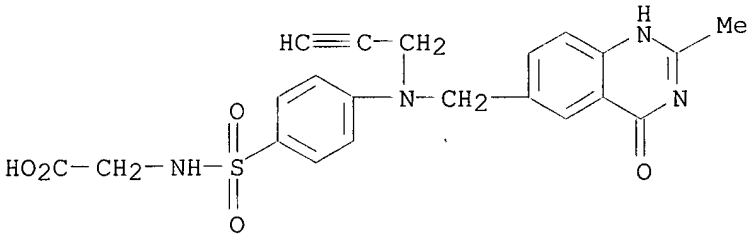


RN 159382-51-1 CAPLUS
CN L-Glutamic acid, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

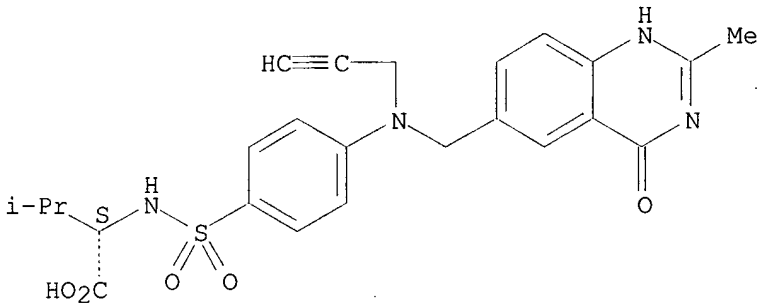


RN 159382-52-2 CAPLUS
CN Glycine, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



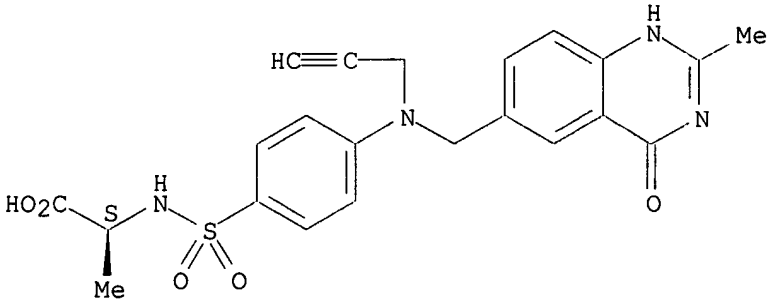
RN 159382-53-3 CAPLUS
CN L-Valine, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

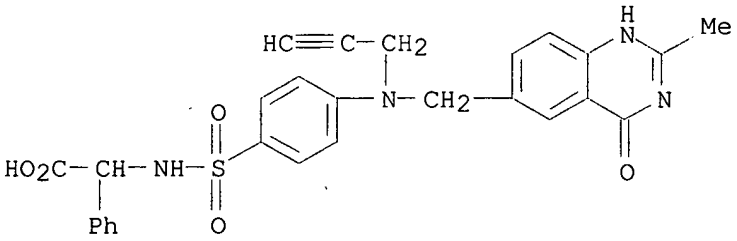


RN 159382-54-4 CAPLUS
CN L-Alanine, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

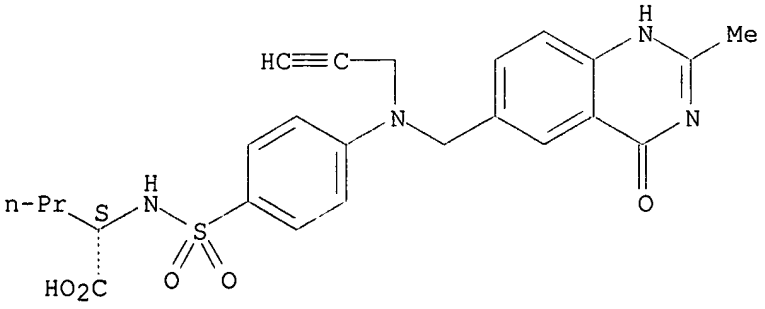


RN 159382-55-5 CAPLUS
CN Benzeneacetic acid, .alpha.-[[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]amino]- (9CI) (CA INDEX NAME)



RN 159382-56-6 CAPLUS
CN L-Norvaline, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



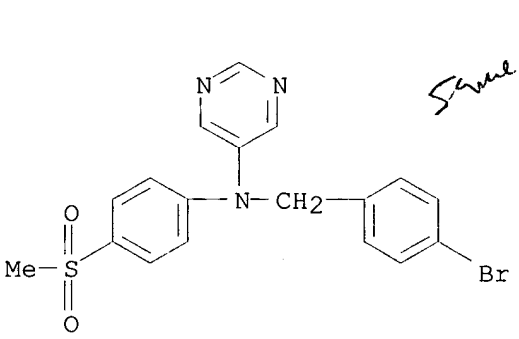
L26 ANSWER 20 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1994:605372 CAPLUS
DOCUMENT NUMBER: 121:205372
TITLE: Preparation of aminopyrimidines as aromatase inhibitors
INVENTOR(S): Okada, Minoru; Yoden, Toru; Kawaminami, Eiji; Shimada, Yoshiaki; Kudo, Masafumi; Isomura, Yasuo
PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9322290	A1	19931111	WO 1993-JP548	19930427
W: AU, BB, BG, BR, CA, CZ, FI, HU, JP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, PT, RO, RU, SD, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9340230	A1	19931129	AU 1993-40230	19930427
EP 640595	A1	19950301	EP 1993-909428	19930427
EP 640595	B1	19990324		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AT 178056	E	19990415	AT 1993-909428	19930427
ES 2130258	T3	19990701	ES 1993-909428	19930427
CN 1079962	A	19931229	CN 1993-105330	19930428
CN 1039228	B	19980722		
US 5538976	A	19960723	US 1994-325383	19941026

PRIORITY APPLN. INFO.: JP 1992-137762 19920428
JP 1992-234298 19920810
WO 1993-JP548 19930427

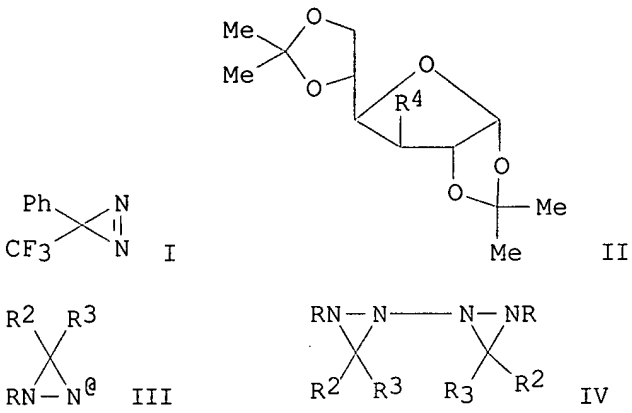
OTHER SOURCE(S): MARPAT 121:205372
GI For diagram(s), see printed CA Issue.
AB The title compds. I [A = single bond, alkylene, etc.; ring B = pyrimidine, pyridazine, triazine ring; rings D and E = (substituted) aryl, etc.; a proviso is given] were prepd. I have aromatase inhibiting activity and are useful as therapeutic agents for breast cancer, endometriosis, prostatic hypertrophy, etc. Treatment of aminopyrimidine II with NaH in DMF, followed by reaction with 4-trifluoromethylbenzyl bromide, gave, after workup, title compd. III. One compd. I in vitro exhibited IC50 of 0.036 nM against aromatase. Formulations contg. I are given.
IT **157911-86-9P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as aromatase inhibitor)
RN 157911-86-9 CAPLUS
CN 5-Pyrimidinamine, N-[(4-bromophenyl)methyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



Same as US 3

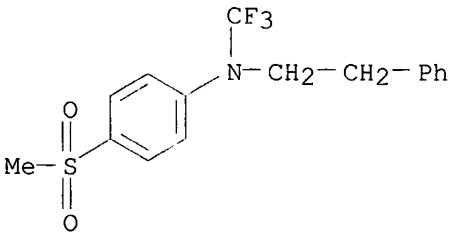
L26 ANSWER 21 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1993:626304 CAPLUS
DOCUMENT NUMBER: 119:226304
TITLE: The invention of radical reactions. 30. Diazirines as carbon radical traps. Mechanistic aspects and synthetic applications of a novel and efficient amination process
AUTHOR(S): Barton, Derek H. R.; Jaszberenyi, Joseph C.;

Theodorakis, Emmanouil A.; Reibenspies, J. H.
CORPORATE SOURCE: Dep. Chem., Texas A and M Univ., College Station, TX, 77843, USA
SOURCE: J. Am. Chem. Soc. (1993), 115(18), 8050-9
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 119:226304
GI



AB A no. of diazirines were synthesized for the purpose of exploring the addn. of a carbon radical to the nitrogen-nitrogen double bond. Carbon radicals, generated from the photolysis of the O-acyl derivs. of N-hydroxy-2-thiopyridone or via radical exchange from the corresponding organotellurides, were shown to add smoothly to the diazirines leading to imines, RN:CR2R3 (R = PhCH2CH2, cyclohexyl, 1-adamantanyl, R2 = Ph, 4-O2NC6H4, R3 = Br; R2 = Ph, 4-MeSO3C6H4, R3 = CF3; R2,R3 = H, cyclohexenyl). When 3-(trifluoromethyl)-3-phenyldiazirine (I) is used as the trap, the thus formed imines can be easily hydrolyzed to amines. Thus, telluro carbohydrate II (R4 = TeC6H4OMe-4) was treated with I in the presence of N-acetoxypyridine-2-thione to give imine II [R4 = N:C(CF3)Ph] which was hydrolyzed to the amine II (R4 = NH2). A mechanism that involves dimerization of the diaziridinyl radicals III to produce tetraazo intermediates IV is suggested in accord with variable temp. NMR data for the reaction. Proof for this mechanistic scheme was furthermore obtained by isolation and x-ray structure detn. of IV (R = CH2OMe, R2 = CF3, R3 = Ph). The first x-ray structure of a 3-(trifluoromethyl)-3-aryldiazirine (aryl = 4-MeSO2C6H4) is also reported.

IT **150772-86-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 150772-86-4 CAPLUS
CN Benzeneethanamine, N-[4-(methylsulfonyl)phenyl]-N-(trifluoromethyl)- (9CI) (CA INDEX NAME)



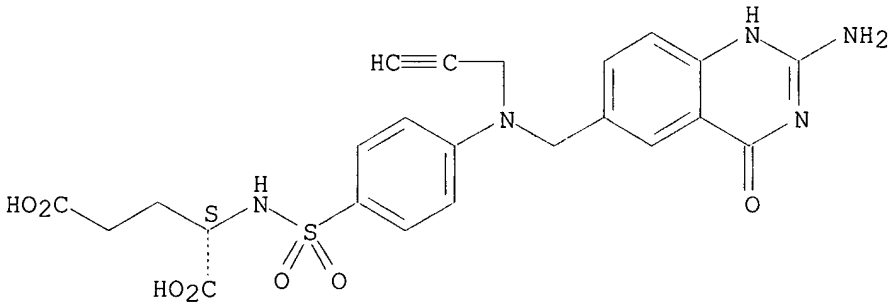
L26 ANSWER 22 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1995:47329 CAPLUS
DOCUMENT NUMBER: 122:290
TITLE: Sulfonamide antifolates inhibiting thymidylate synthase: synthesis, enzyme inhibition and cytotoxicity
AUTHOR(S): Pawelczak, K.; Makowski, M.; Kempny, M.; Dzik, J. M.; Balinska, M.; Rode, W.
CORPORATE SOURCE: Inst. Chem., Pedagog. Univ. Opole, Opole, 45-052, Pol.
SOURCE: Adv. Exp. Med. Biol. (1993), 338(Chemistry and Biology of Pteridines and Folates), 625-8
CODEN: AEMBAP; ISSN: 0065-2598
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Inhibitory activity of 10-propargyl-5,8-dideazafolic acid, 2-deamino-2-methyl-10-propargyl-5,8-dideazafolic acid and 7 sulfonamide analogs on Ehrlich carcinoma thymidylate synthase and L5178Y cell growth is tabulated. Structure-activity relations are briefly discussed.

IT **159382-50-0 159382-51-1 159382-52-2 159382-53-3 159382-54-4 159382-55-5 159382-56-6**
RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antitumor activity and thymidylate synthase inhibition by)

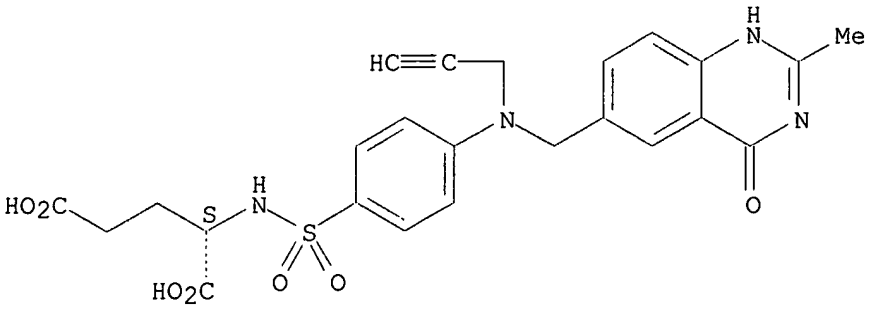
RN 159382-50-0 CAPLUS
CN L-Glutamic acid, N-[[4-[[(2-amino-1,4-dihydro-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

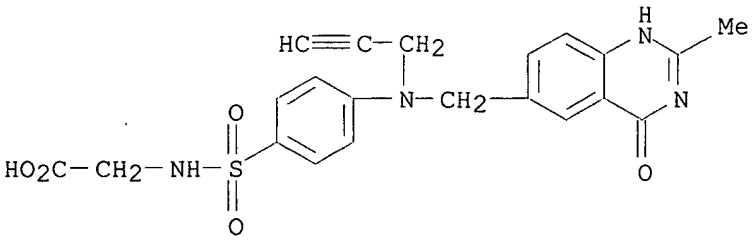


RN 159382-51-1 CAPLUS
CN L-Glutamic acid, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

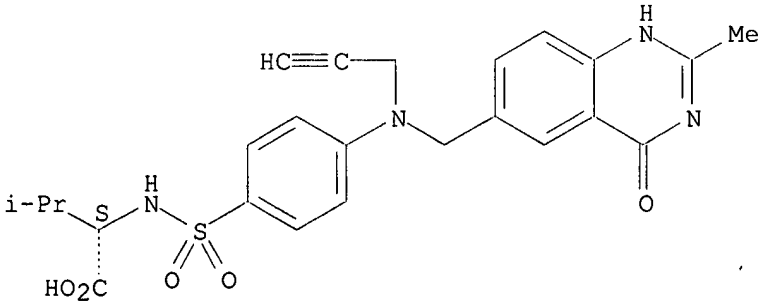


RN 159382-52-2 CAPLUS
CN Glycine, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



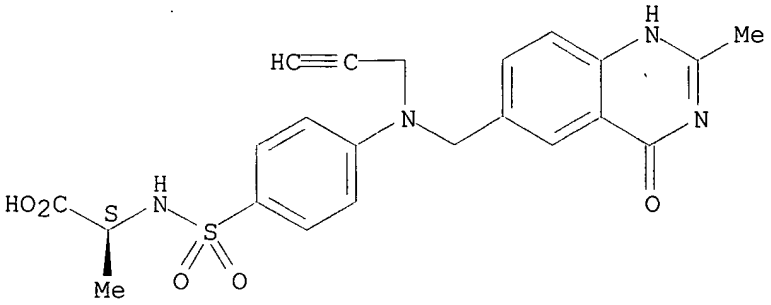
RN 159382-53-3 CAPLUS
CN L-Valine, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

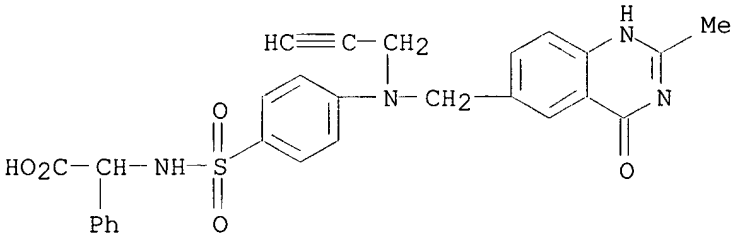


RN 159382-54-4 CAPLUS
CN L-Alanine, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

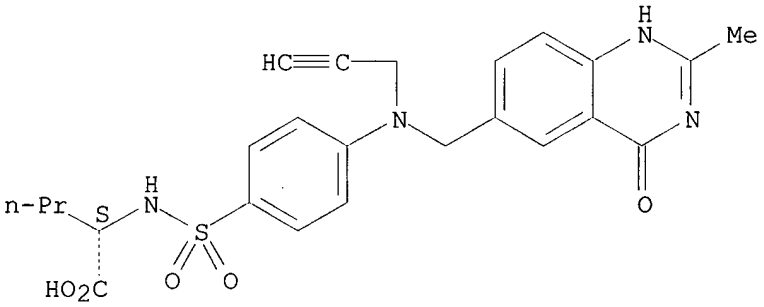


RN 159382-55-5 CAPLUS
CN Benzeneacetic acid, .alpha.-[[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]amino]- (9CI) (CA INDEX NAME)



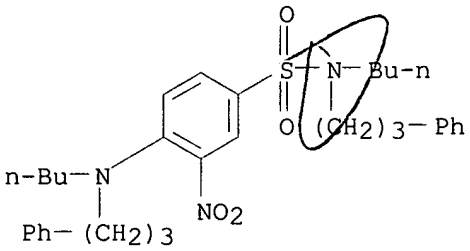
RN 159382-56-6 CAPLUS
CN L-Norvaline, N-[[4-[[(1,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L26 ANSWER 23 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1993:193617 CAPLUS
DOCUMENT NUMBER: 118:193617
TITLE: A novel method for the preparation of 3-amino-4-hydroxybenzenesulfonamide precursors of Acid Alizarin Violet N derivatives
AUTHOR(S): Katritzky, Alan R.; Wu, Jing; Rachwal, Stanislaw; Macomber, David; Smith, Terrance P.
CORPORATE SOURCE: Cent. Heterocycl. Compd., Univ. Florida, Gainesville, FL, 32611-2046, USA
SOURCE: Synth. Commun. (1993), 23(3), 405-17
CODEN: SYNCAV; ISSN: 0039-7911

DOCUMENT TYPE: Journal
LANGUAGE: English
AB Chlorosulfonation of 2-nitroanisole gave 4-methoxy-3-nitrobenzenesulfonyl chloride) which was converted with N-butyl-N-(3-phenylpropyl)amine into the benzenesulfonamide (I). Hydrolysis of the ether and redn. of the nitro group of I followed by diazotization and coupling with 2-naphthol gave N-butyl-N-(3-phenylpropyl)-4-hydroxy-3-(2-hydroxy-1-naphthyl)azobenzenesulfonamide.
IT **147237-65-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 147237-65-8 CAPLUS
CN Benzenesulfonamide, N-butyl-4-[butyl(3-phenylpropyl)amino]-3-nitro-N-(3-phenylpropyl)- (9CI) (CA INDEX NAME)



L26 ANSWER 24 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1990:591383 CAPLUS
DOCUMENT NUMBER: 113:191383
TITLE: Preparation of quinazolines as antiproliferatives
INVENTOR(S): Jones, Terence R.; Varney, Michael D.; Webber, Stephen E.; Appelt, Krysztof; Marzoni, Gifford
PATENT ASSIGNEE(S): Agouron Pharmaceuticals, USA
SOURCE: Eur. Pat. Appl., 46 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 365763	A1	19900502	EP 1989-113994	19890728
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AU 8941153	A1	19900405	AU 1989-41153	19890907
AU 638679	B2	19930708		
ZA 8906908	A	19900926	ZA 1989-6908	19890911
FI 8904473	A	19900331	FI 1989-4473	19890921
NO 8903808	A	19900402	NO 1989-3808	19890925
JP 02174749	A2	19900706	JP 1989-251708	19890927
DK 8904813	A	19900331	DK 1989-4813	19890929

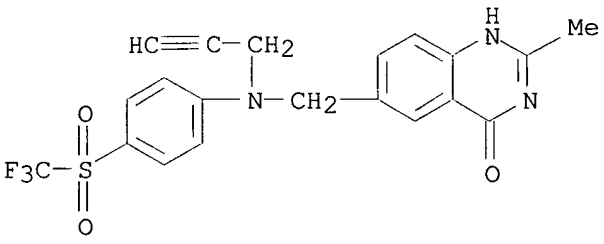
PRIORITY APPLN. INFO.: US 1988-251765 19880930
OTHER SOURCE(S): MARPAT 113:191383
GI For diagram(s), see printed CA Issue.
AB Title compds. I (R1 = Me, Ph, MeO; R3 = H, Me, Et, HC.tplbond.C, F3C, HOCH2, .alpha.-hydroxyethyl, Cl, Br, iodo; R4 = H, F, Cl, cyano, O2N, Bz, PhSO2, F3CSO2, H2NSO2, etc.) are prepd. I exhibit thymidylate synthase inhibition and antitumor activity. I are also antibacterial, antifungal, antiparasitic, antiviral, antipsoriatic, antiprotozoal, and anticoccidial (no data). To NaH and 4-(F3CSO2)C6H4NHCH2C.tplbond.CH in DMF was added 6-(bromomethyl)-3,4-dihydro-2-methyl-4-oxo-3-(pivaloyloxy)methylquinazolin

e, followed by workup and hydrolysis with LiOH in aq. MeOH, to give I (R1 = R3 = H; R4 = F3CSO2) (II). The thymidylate synthase inhibition const. Ki of II in Escherichia coli and humans was 0.015 and 0.075 .mu.M, resp.

IT **130205-96-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as antiproliferative agent)

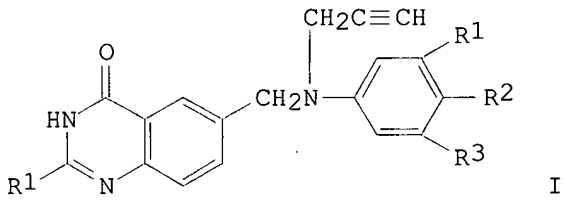
RN 130205-96-8 CAPLUS

CN 4(1H)-Quinazolinone, 2-methyl-6-[[2-propynyl[4-[(trifluoromethyl)sulfonyl]phenyl]amino]methyl]- (9CI) (CA INDEX NAME)

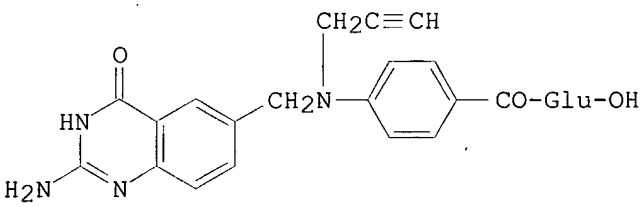


L26 ANSWER 25 OF 60 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1990:515813 CAPLUS
DOCUMENT NUMBER: 113:115813
TITLE: Potent inhibition of thymidylate synthase by two series of nonclassical quinazolines
AUTHOR(S): McNamara, Dennis J.; Berman, Ellen M.; Fry, David W.; Werbel, Leslie M.
CORPORATE SOURCE: Parke-Davis Pharm. Res. Div., Warner-Lambert Co., Ann Arbor, MI, 48105, USA
SOURCE: J. Med. Chem. (1990), 33(7), 2045-51
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:115813
GI



I

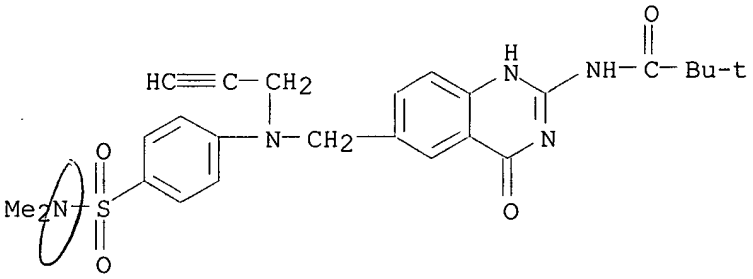


II

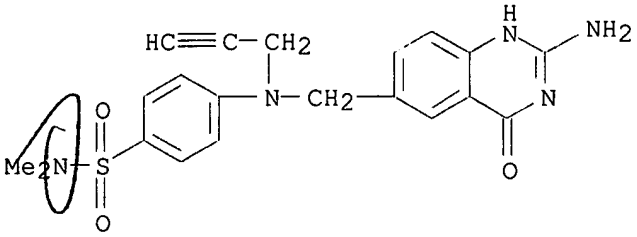
AB The synthesis and biol. activity of two series of nonclassical thymidylate synthase (TS) inhibitors are described. The first is a series of 10-propargyl-5,8-dideazafolic acid derivs. I (R = NH2; R1 = R2 = Cl, R3 = H; R1-R3 = OMe; R1 = R3 = H, R2 = Ac, F, cyano, CONH2, SO2NMe2, NO2, COCF3, OCF3) and the second is a series of 2-deamino derivs. I (R = H; R1

= R2 = Cl, R3 = H, R1-R3 = OMe; R1 = R3 = H, R4 = Ac), both bearing a more lipophilic substituent on the Ph ring than the CO-glutamate of classical antifolates. The compds. were tested for inhibition of purified L1210 TS and for inhibition of L1210 cell growth in vitro. Several of these nonclassical analogs approached the TS inhibitory potency of 10-propargyl-5,8-dideazafolic acid (II), a glutamate-contg. TS inhibitor. I (R = NH2) were generally potent inhibitors of L1210 TS, with ED50s within the range of 0.51-11.5 .mu.M for II. I (R = H) also exhibited significant, although diminished, TS inhibition. Both series were growth inhibitory to cells in tissue culture and this inhibition could be reversed by thymidine alone, indicating that the primary target was TS. None of the compds. was a potent inhibitor of dihydrofolate reductase. These studies indicate that the presence of the glutamate moiety in folate analogs is not an abs. requirement for potent inhibition of TS.

IT **123685-53-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and deacylation of)
RN 123685-53-0 CAPLUS
CN Propanamide, N-[6-[[[4-[(dimethylamino)sulfonyl]phenyl]-2-propynylamino]methyl]-1,4-dihydro-4-oxo-2-quinazolinyl]-2,2-dimethyl- (9CI) (CA INDEX NAME)



IT **123685-37-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and thymidylate synthase-inhibiting activity of)
RN 123685-37-0 CAPLUS
CN Benzenesulfonamide, 4-[[(2-amino-1,4-dihydro-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L26 ANSWER 26 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1990:169220 CAPLUS
DOCUMENT NUMBER: 112:169220
TITLE: Organic thin film device
INVENTOR(S): Sato, Itsuko; Naito, Katsuyuki; Genma, Nobuhiro; Azuma, Makoto
PATENT ASSIGNEE(S): Toshiba Corp., Japan
SOURCE: Brit. UK Pat. Appl., 41 pp.

CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

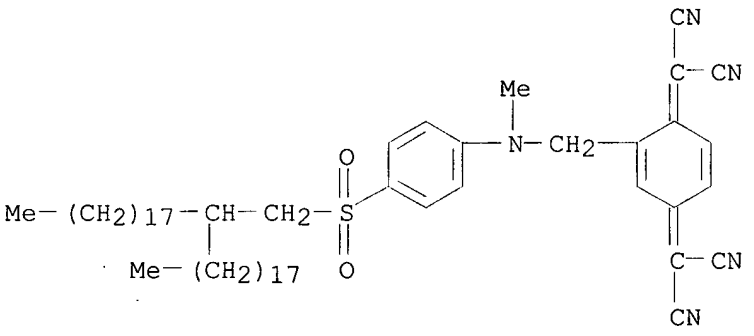
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2217910	A1	19891101	GB 1989-7064	19890329
GB 2217910	B2	19920527		
JP 02001168	A2	19900105	JP 1988-253742	19881011
JP 3153537	B2	20010409		
US 4987023	A	19910122	US 1989-330205	19890329

PRIORITY APPLN. INFO.: JP 1988-73305 A 19880329
JP 1988-253742 A 19881011

AB An org. thin-film device, which employs a Langmuir-Blodgett film, has a small threshold value of the external potential, and may be used as a multicolor display, a rectifier, a switching device, or a light memory device, comprises 1st and 2nd org. thin films contg. acceptor and donor mols., resp., stacked one upon another, in which .gtoreq.1 of the 1st and the 2nd org. thin films contains a chem. species having a dipole moment .vector.P2 and the dipole moment .vector.P2 and the dipole moment .vector.P1, produced by charge transfer between the acceptor and the donor mols., that satifies the formula (.vector.P1..vector.P2)|.vector.r|2 - 3 (.vector.P1..vector.r)(.vector.P2..vector.r)<0 where .vector.r represents a positional relation between .vector.P1 and .vector.P2. The direction of the dipole moment .vector.P2 is opposite to that of the dipole moment .vector.P2 and the chem. species having the dipole moment .vector.P2 comprises a functional group bonded to one of the acceptor and the donor mols. The 1st and the 2nd org. thin films are alternately stacked one upon another to produce a laminate film of a superlattice structure.

IT **126229-92-3**
RL: USES (Uses)
(electrooptical display device contg. thin films of)

RN 126229-92-3 CAPLUS
CN Propanedinitrile, 2,2'-[2-[[methyl[4-[(2-octadecyleicosyl)sulfonyl]phenyl] amino]methyl]-2,5-cyclohexadiene-1,4-diylidene]bis- (9CI) (CA INDEX NAME)

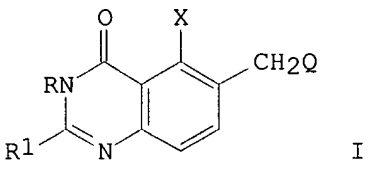


L26 ANSWER 27 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1989:614500 CAPLUS
DOCUMENT NUMBER: 111:214500
TITLE: Preparation of 6-[[(hetero)arylamino]methyl]quinazolin ones as thymidylate synthase inhibitors
INVENTOR(S): Berman, Ellen Myra; Werbel, Leslie Morton; McNamara, Dennis Joseph
PATENT ASSIGNEE(S): Warner-Lambert Co., USA
SOURCE: Eur. Pat. Appl., 37 pp.

CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 316657	A1	19890524	EP 1988-118242	19881102
R: ES, GR				
US 4857530	A	19890815	US 1987-116929	19871103
WO 8904307	A1	19890518	WO 1988-US3902	19881102
W: AT, DE, GB, JP, LU, NL, SE, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
EP 426666	A1	19910515	EP 1988-910271	19881102
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 03502573	T2	19910613	JP 1988-509406	19881102

PRIORITY APPLN. INFO.: US 1987-116929 19871103
WO 1988-US3902 19881102
OTHER SOURCE(S): CASREACT 111:214500; MARPAT 111:214500
GI



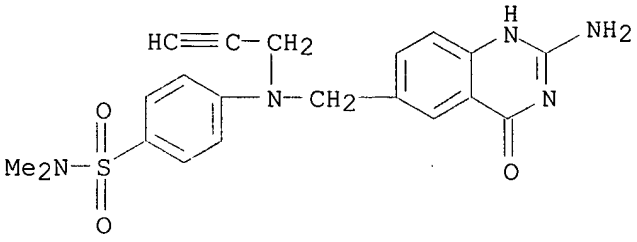
I

AB The title compds. [I; Q = NR2Ar; R = H, C1-6 alkyl, CH2O2CR3; R3 = C1-6 alkyl; R1 = H, C1-6 alkyl, NR4R5, NHCOR3; R4,R5 = H, C1-6 alkyl; R2 = C1-6 alkyl, C2-6 alkenyl or alkynyl, NR4R5-substituted alkynyl; X = H, C1-6 alkyl, halo; Ar = C2-6 acylpyridin-2-yl, (un)substituted Ph] (II) were prepd. as anticancer agents. A suspension of 75% pure 2,2-dimethylpropanoic acid [6-(bromomethyl)-4-oxo-3(4H)-quinazolinyl]methyl ester, 1-[4-(2-propynylamino)phenyl]ethanone, and dry CaCO3 in AcNMe2 is stirred 18 h at 80.degree. to give a product which was treated 18 h at room temp. with satd. methanolic NH3 to give 6-[[4-acetylphenyl)-2-propynylamino]methyl]-4-(3H)-quinazolinone. Thirteen II in vitro inhibited L1210 murine leukemia cell line with IC50's of 2.4 to 26.1 .mu.M.

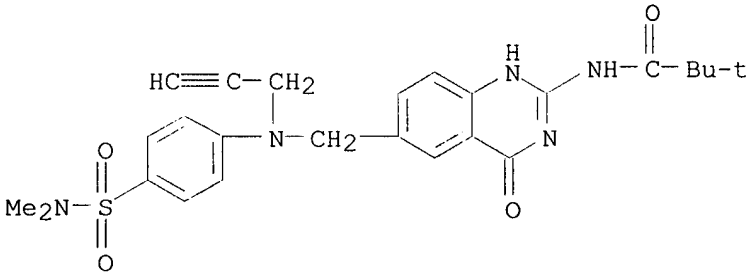
IT **123685-37-0P 123685-53-0P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as antitumor agent)

RN 123685-37-0 CAPLUS

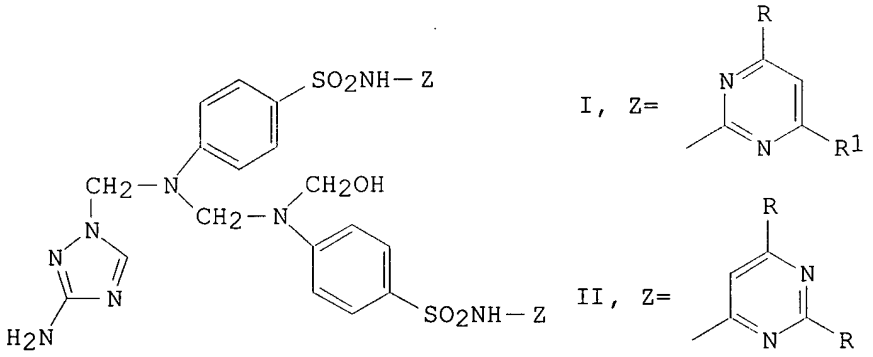
CN Benzenesulfonamide, 4-[[(2-amino-1,4-dihydro-4-oxo-6-quinazolinyl)methyl]-2-propynylamino]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 123685-53-0 CAPLUS
CN Propanamide, N-[6-[[[4-[(dimethylamino)sulfonyl]phenyl]-2-propynylamino]methyl]-1,4-dihydro-4-oxo-2-quinazolinyl]-2,2-dimethyl- (9CI) (CA INDEX NAME)



L26 ANSWER 28 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1991:6421 CAPLUS
DOCUMENT NUMBER: 114:6421
TITLE: Pyrimidinyl sulfonamides derived from 1,2,4-triazole
AUTHOR(S): Skwarski, Dionizy; Sobolewski, Henryk; Bererzanska, Anna
CORPORATE SOURCE: Dep. Chem. Technol. Pharm. Prod., Sch. Med., Poznan, 60780, Pol.
SOURCE: Acta Pol. Pharm. (1989), 46(3), 232-6
CODEN: APPHAX; ISSN: 0001-6837
DOCUMENT TYPE: Journal
LANGUAGE: Polish
GI



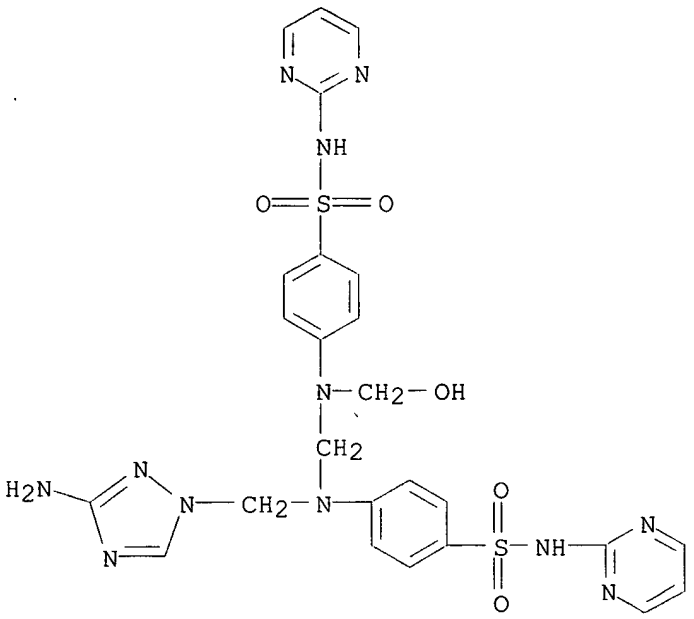
AB The title Mannich bases I (R = R1 = H, Me; R = H, R1 = Me, OMe) and II (R

= Me, OMe) were prepd. (51-9% yield) as potential antiviral agents in the reaction of appropriately substituted 4-H2NC6H4SO2NHZ with 3-amino-1,2,4-triazole and CH2O.

IT **130842-89-6P 130842-90-9P 130842-91-0P**
130842-92-1P 130842-93-2P 130842-94-3P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as antiviral agent)

RN 130842-89-6 CAPLUS

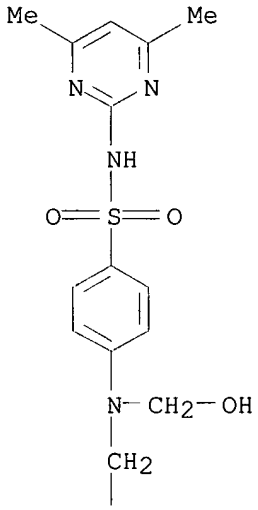
CN Benzenesulfonamide, 4-[[(3-amino-1H-1,2,4-triazol-1-yl)methyl][[(hydroxymethyl)[4-[(2-pyrimidinylamino)sulfonyl]phenyl]amino]methyl]amino]-N-2-pyrimidinyl- (9CI) (CA INDEX NAME)



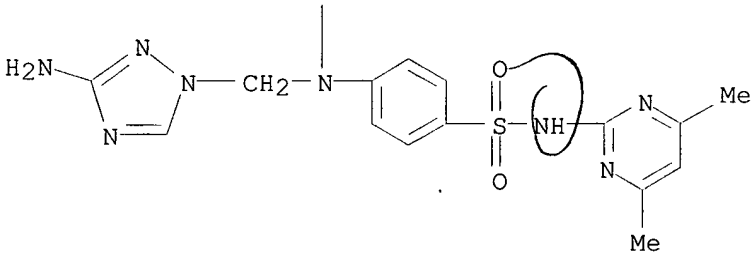
RN 130842-90-9 CAPLUS

CN Benzenesulfonamide, 4-[[[[(3-amino-1H-1,2,4-triazol-1-yl)methyl][4-[[(4,6-dimethyl-2-pyrimidinyl)amino]sulfonyl]phenyl]amino]methyl](hydroxymethyl)amino]-N-(4,6-dimethyl-2-pyrimidinyl)- (9CI) (CA INDEX NAME)

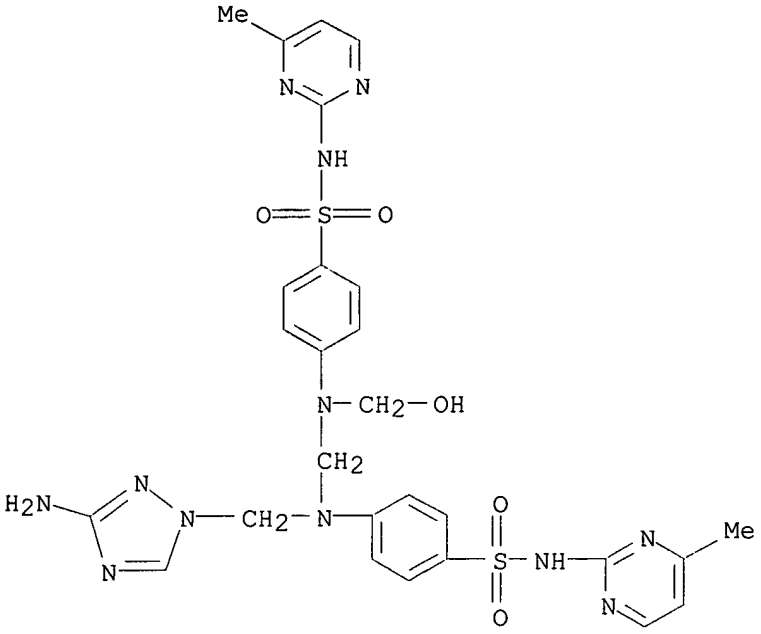
PAGE 1-A



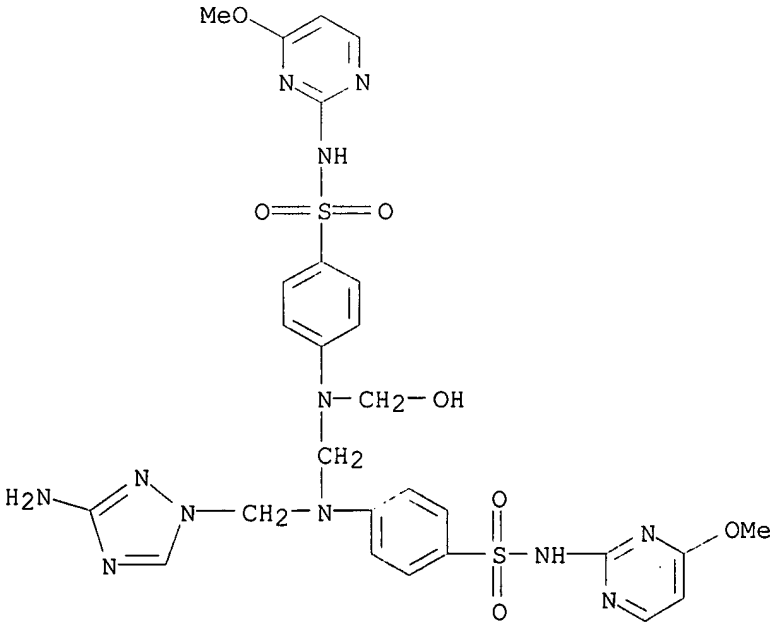
PAGE 2-A



RN 130842-91-0 CAPLUS
CN Benzenesulfonamide, 4-[[(3-amino-1H-1,2,4-triazol-1-yl)methyl][[(hydroxymethyl)[4-[[(4-methyl-2-pyrimidinyl)amino]sulfonyl]phenyl]amino]methyl]amino]-N-(4-methyl-2-pyrimidinyl)- (9CI) (CA INDEX NAME)

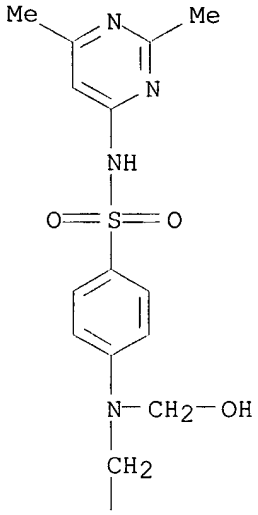


RN 130842-92-1 CAPLUS
CN Benzenesulfonamide, 4-[[(3-amino-1H-1,2,4-triazol-1-yl)methyl][[(hydroxymethyl)[4-[[(4-methoxy-2-pyrimidinyl)amino]sulfonyl]phenyl]amino]methyl]amino]-N-(4-methoxy-2-pyrimidinyl)- (9CI) (CA INDEX NAME)

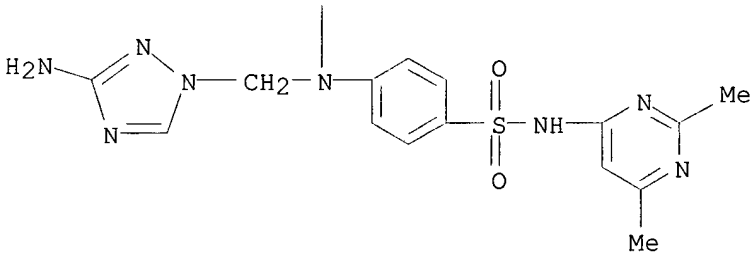


RN 130842-93-2 CAPLUS
CN Benzenesulfonamide, 4-[[(3-amino-1H-1,2,4-triazol-1-yl)methyl][[[4-[[(2,6-dimethyl-4-pyrimidinyl)amino]sulfonyl]phenyl](hydroxymethyl)amino]methyl]amino]-N-(2,6-dimethyl-4-pyrimidinyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

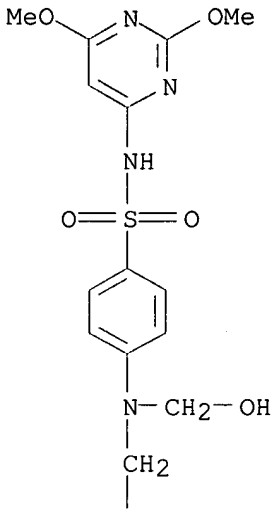


PAGE 2-A



RN 130842-94-3 CAPLUS
CN Benzenesulfonamide, 4-[[(3-amino-1H-1,2,4-triazol-1-yl)methyl][[[4-[[(2,6-dimethoxy-4-pyrimidinyl)amino]sulfonyl]phenyl](hydroxymethyl)amino]methyl]amino]-N-(2,6-dimethoxy-4-pyrimidinyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



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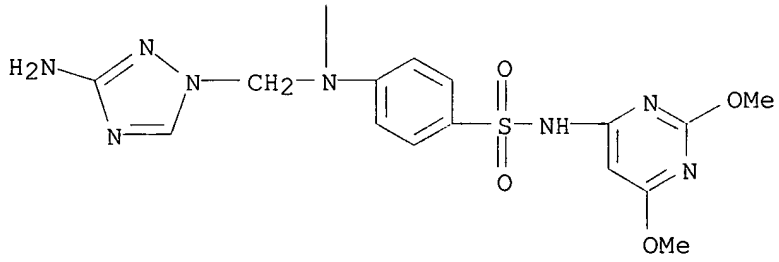

L26 ANSWER 29 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1988:630567 CAPLUS
DOCUMENT NUMBER: 109:230567
TITLE: Preparation of N-benzylhaloacetamide derivatives as herbicides
INVENTOR(S): Kato, Shozo; Takematsu, Tetsuo; Okamoto, Hidenori; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63115851	A2	19880520	JP 1986-258479	19861031
JP 06023145	B4	19940330		

OTHER SOURCE(S): MARPAT 109:230567
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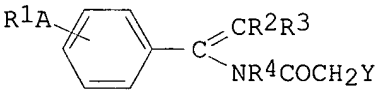
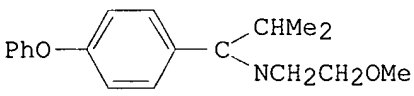

I

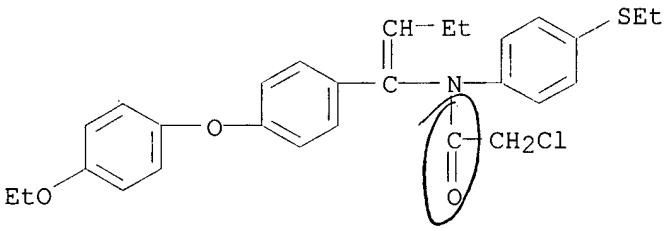

II

AB The title amides [I; R1 = (substituted) aryl; R2, R3 = H, alkyl; R4 = (substituted) alkyl, aryl, alkenyl, alkynyl; A = O, S, Y = Cl, Br, iodo] are prepd. A soln. of ClCH2COCl in DMF was slowly added to enamine II in DMF at room temp. with stirring and heated at 50.degree. to give 68% amide I (R1A = PhO at 4-position, R2 = R3 = Me, R4 = MeOCH2CH2, Y = Cl), which showed complete kill of barnyard grass at 200 g/10 are.

IT **117542-65-1P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

RN 117542-65-1 CAPLUS

CN Acetamide, 2-chloro-N-[1-[4-(4-ethoxyphenoxy)phenyl]-1-butenyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 30 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1988:601316 CAPLUS
DOCUMENT NUMBER: 109:201316
TITLE: Silver halide photographic material with lightfast magenta image
INVENTOR(S): Sugita, Shuichi; Yoshimoto, Shinji; Shimada, Naoko; Kaneko, Yutaka; Nakagawa, Satoshi
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63095449	A2	19880426	JP 1986-241746	19861011

GI For diagram(s), see printed CA Issue.

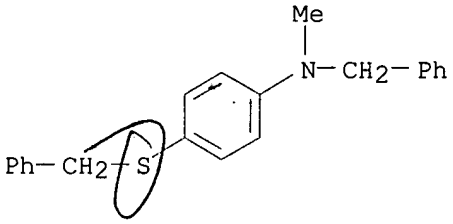
AB The title material contains magenta coupler I and stabilizer II (Z = N-contg. heterocyclic ring; X = H, leaving group; R = H, substituent; R1 = alkyl, cycloalkyl, alkenyl, aryl, heterocyclyl, acyl, hydrocarbyl, alkylsulfonyl, arylsulfonyl; R2 = substituent; m = 0-4; R3-4 = H, or defined as for R1 but not both H; R2 groups may form ring(s) with each other or with SR1). The material provides magenta images stable to light, and background without yellow stain. Thus, Ag(Cl,Br) emulsion mixed with magenta coupler III, dioctylhydroquinone, and stabilizer IV was coated on

polyethylene-coated paper to obtain a layer contg. 3.8 mg Ag, 6.0 mg III, and IV equimol. to III per 100 cm2.

IT **117451-31-7**
RL: USES (Uses)
(photog. stabilizer, for magenta images)

RN 117451-31-7 CAPLUS

CN Benzenemethanamine, N-methyl-N-[4-[(phenylmethyl)thio]phenyl]- (9CI) (CA INDEX NAME)

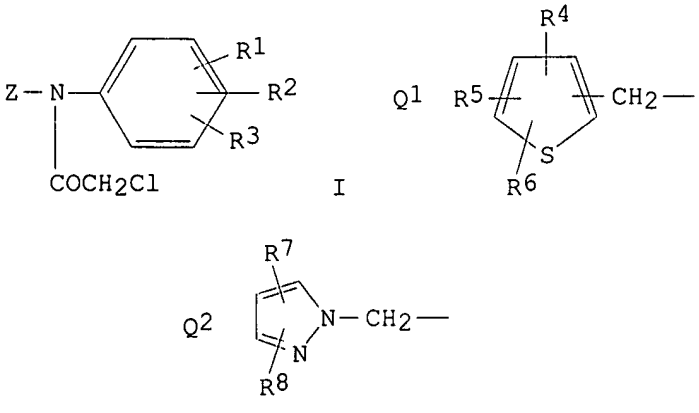


L26 ANSWER 31 OF 60 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1987:593026 CAPLUS
DOCUMENT NUMBER: 107:193026
TITLE: Emulsions containing herbicidal N-substituted chloroacetamides and sucrose esters
INVENTOR(S): Kato, Shozo; Kondo, Naohiko; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62093205	A2	19870428	JP 1985-233346	19851021
JP 06084288	B4	19941026		

GI

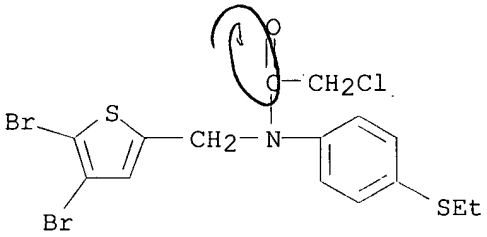


AB An emulsifiable herbicidal formulation is prepd. consisting of sucrose esters and chloroacetamides I (R1, R2, R3 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio; Z = alkoxyalkyl, Q1, Q2; R4, R5, R6 = H, halo, alkyl, alkoxy, etc.; R7 and R8 = H or alkyl). N-(2,6-Dimethylphenyl)-N-(2-methoxythiophen-2-yl)chloroacetamide 20, Ph sucrose ester 10, Ca

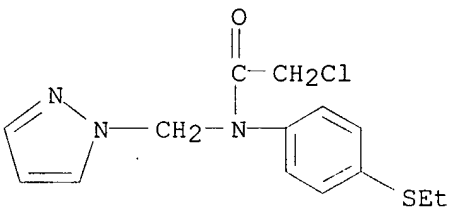
dodecylbenzenesulfonate 5, polyoxyethylene alkylaryl ester 5, and a solvent 60 parts by wt. were mixed to give an emulsion.

IT **103465-74-3 110685-99-9**
RL: BIOL (Biological study)
(herbicidal emulsion contg. sucrose ester and)

RN 103465-74-3 CAPLUS
CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)



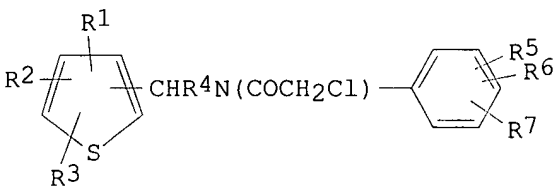
RN 110685-99-9 CAPLUS
CN Acetamide, 2-chloro-N-[4-(ethylthio)phenyl]-N-(1H-pyrazol-1-ylmethyl)- (9CI) (CA INDEX NAME)



L26 ANSWER 32 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1987:133805 CAPLUS
DOCUMENT NUMBER: 106:133805
TITLE: Herbicide composition.
INVENTOR(S): Suyama, Toshihisa; Kato, Shozo; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61148103	A2	19860705	JP 1984-268434	19841221

GI



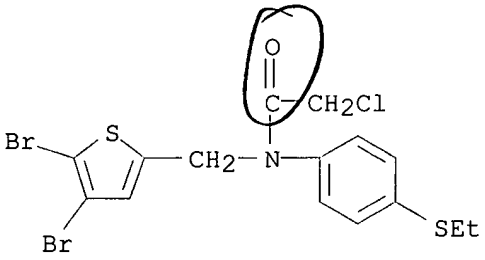
I

AB I (R1, R2, R3 = H, halo, alkyl, alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R4 = H, alkyl; R5, R6, R7 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio) are prepd. and combined with R8CFR9CF2COR10 (R8 R9 = H, halo; R10 = OR11, NR12R13 etc.; R11, R12, R13 = H, alkyl) as herbicide compns. The latter are safeners for I. Thus, 1.81 g N-[2'-(5'-bromo)thienylmethyl]-2,6-dimethylaniline and 0.81 g Et3N was reacted with 0.83 g ClCH2COCl in benzene at 50.degree. for 1 h to give 1.13 g N-[2'-(5'-bromo)thienylmethyl]-N-chloroacetyl-2,6-dimethylanilide (II). II combined with F2CHCF2CO2H, applied at 20 and 4 g/are resp., totally controlled Panicum crus-galli on rice, in pots expts. When II was applied alone, rice damage was shown.

IT **103465-74-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

RN 103465-74-3 CAPLUS

CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)

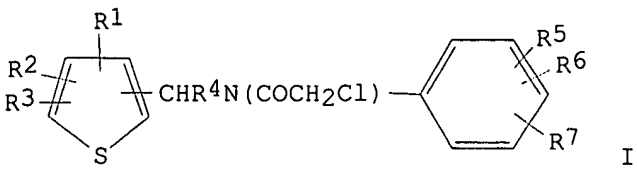


L26 ANSWER 33 OF 60 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1987:115252 CAPLUS
DOCUMENT NUMBER: 106:115252
TITLE: Thienylmethylchloroacetanilide herbicides
INVENTOR(S): Suyama, Toshihisa; Kato, Shozo
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61145102	A2	19860702	JP 1984-266435	19841219
JP 05059882	B4	19930901		

GI



I

AB Thiophene derivs. I (R1, R2, R3 = H, halo, alkyl, alkoxy, alkylthio,

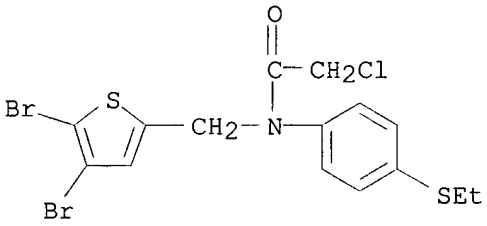
alkoxyalkyl, alkylthioalkyl; R4 = H, alkyl; R5, R6, R7 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio) are prepd. as herbicides and are optionally combined with known phenylpyrimidine derivs. Thus, postemergence, N-(3-thienylmethyl)-N-chloroacetyl-2,6-dimethylanilide (II) and 4,5-dichloro-2-phenylpyrimidine (10 + 5 g/are) totally controlled Panicum crus-galli, Cyperus difformis, and C. serotinus without damage to rice in pots expts. When II was applied alone, rice damage was shown.

IT **103465-74-3P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

RN 103465-74-3 CAPLUS

CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)

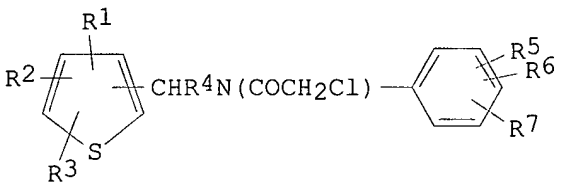


L26 ANSWER 34 OF 60 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1987:133802 CAPLUS
DOCUMENT NUMBER: 106:133802
TITLE: Thienylmethylchloroacetanilide analog herbicides
INVENTOR(S): Kato, Shozo; Kondo, Naohiko; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61145101	A2	19860702	JP 1984-267466	19841220
JP 04071041	B4	19921112		

OTHER SOURCE(S): CASREACT 106:133802
GI



I

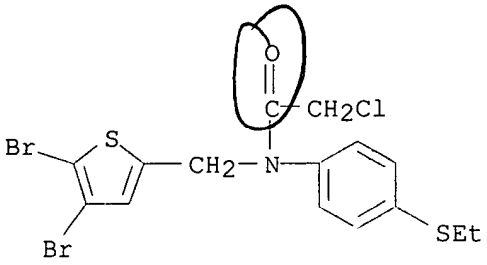
AB The thiophene derivs. I (R1, R2, R3 = H, halo, alkyl, alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R4 = H, alkyl; R5, R6, R7 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio) are prepd. as herbicides and are eventually combined with white C. Thus, Ca silicate 30, bentonite 15,

talc 50, and Na tripolyphosphate 5 parts and water were mixed and granulated. These granules 99 and N-[2'-(3'-methoxy)thienylmethyl]-2-chloro-6-methylaniline (II) 1 part were mixed. Postemergence II and white C, applied at 0.5 and 30% resp., totally controlled Panicum crus-galli on rice in pots expts.

IT **103465-74-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

RN 103465-74-3 CAPLUS

CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)

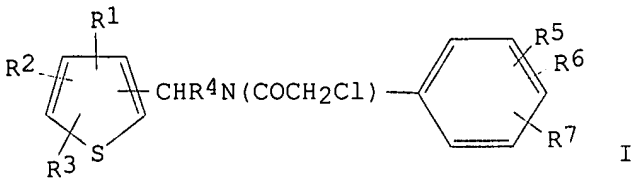


L26 ANSWER 35 OF 60 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1987:115250 CAPLUS
DOCUMENT NUMBER: 106:115250
TITLE: Thienylmethylchloroacetanilide herbicides
INVENTOR(S): Kato, Shozo; Ishizaki, Masahiko
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61143308	A2	19860701	JP 1984-265244	19841218
JP 05003447	B4	19930114		

GI



I

AB Thiophene derivs. I (R1, R2, R3 = H, halo, alkyl, alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R4 = H, alkyl; R5, R6, R7 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio) are prepd. as herbicides and are optionally combined with sulfonylurea derivs. Thus, postemergence, N-(3-thienylmethyl)-N-chloroacetyl-2,6-dimethylanilide and Chlorosulfuron, applied at 3 + 0.5 g/are, totally controlled Panicum crus-galli, Cyperus difformis, C. serotinus, Scirpus botarui, and Sagittaria pygmaea without

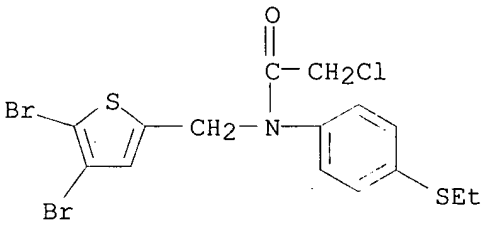
damage to rice in pots expts.

IT **103465-74-3P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

RN 103465-74-3 CAPLUS

CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)

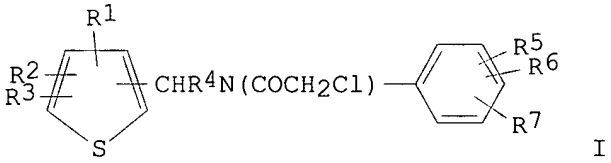


L26 ANSWER 36 OF 60 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1987:133804 CAPLUS
DOCUMENT NUMBER: 106:133804
TITLE: Thienylmethylchloroacetanilide herbicides
INVENTOR(S): Kato, Shozo; Ishizaki, Masahiko; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61143306	A2	19860701	JP 1984-264551	19841217

GI



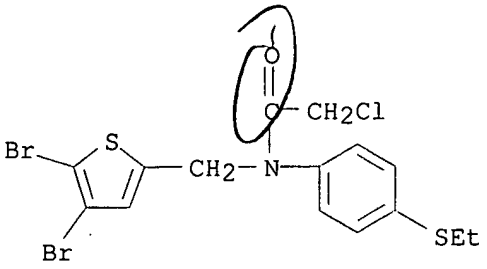
I

AB Thiophene deriv. I (R1, R2, R3 = H, halo, alkyl, alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R4 = H, alkyl; R5, R6, R7 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio) are prepd. as herbicides and eventually combined with known triazine deriv. for synergism. Thus, postemergence, N-(3'-thienylmethyl)-N-chloroacetyl-2,6-dimethylanilide and Simetryn (2 + 4 g/are) totally controlled Panicum crus-galli, Cyperus difformis, C. serotinus, Scirpus hotarui, and Sagittaria pygmaea without damage to rice, in pots expts.

IT **103465-74-3P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

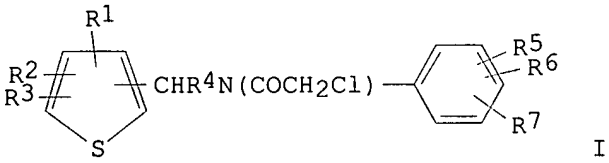
RN 103465-74-3 CAPLUS
CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 37 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1987:133803 CAPLUS
DOCUMENT NUMBER: 106:133803
TITLE: Thienylmethylchloroacetanilide herbicides
INVENTOR(S): Kato, Shozo; Ishizaki, Masahiko
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61143302	A2	19860701	JP 1984-265245	19841218

GI

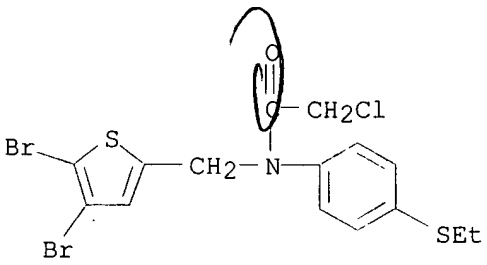


I

AB Thiophene derivs. I (R1, R2, R3 = H, halo, alkyl, alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R4 = H, alkyl; R5, R6, R7 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio) are prepd. as herbicides and eventually combined with known amide derivs. for synergism. Thus, postemergence, N-(3'-thienylmethyl)-N-chloroacetyl-2,6-dimethylanilide and N-propionyl-3,4-dichloroanilide (2 + 8 g/are) totally controlled Panicum crus-galli, Cyperus difformis, C. serotinus, Scirpus hotarui without damage to rice, in pot expts.

IT **103465-74-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

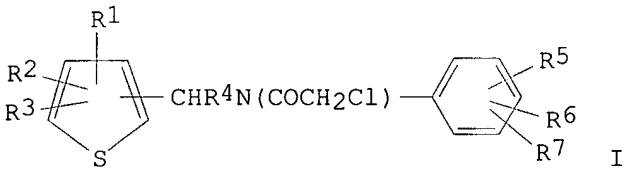
RN 103465-74-3 CAPLUS
CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)



126 ANSWER 38 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1987:115246 CAPLUS
DOCUMENT NUMBER: 106:115246
TITLE: Thienylmethylchloroacetanilide herbicides
INVENTOR(S): Kato, Shozo; Ishizaki, Masahiko; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61140507	A2	19860627	JP 1984-260857	19841212

GI

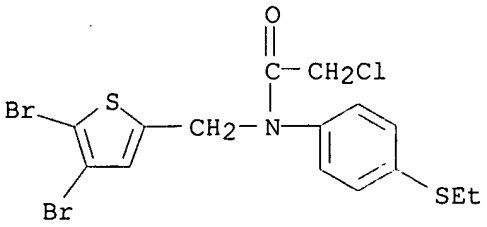


I

AB Thiophene derivs. I (R1, R2, R3 = H, halo, alkyl, alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R4 = H, alkyl; R5, R6, R7 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio) were prepd. as herbicides. I are synergistic with ureas and di-Ph ethers. Thus, postemergence, N-(thien-2-ylmethyl)-N-chloroacetyl-2,6-dimethylanilide, p-(2,4,6-trichlorophenoxy)nitrobenzene, and N-.alpha.,.alpha.-dimethylbenzyl-N'-p-tolylurea, applied at 2, 3, and 4 g/are resp., totally controlled Panicum crus-galli, Cyperus difformis, Scirpno hotarui, Sagittaria pygmaea, and Cyperus serotinus without damage to rice in pots expts.

IT **103465-74-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

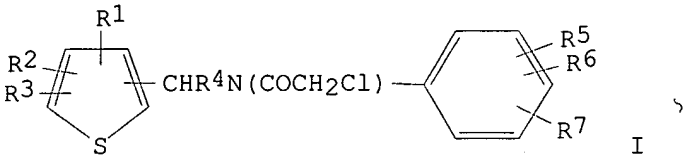
RN 103465-74-3 CAPLUS
CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 39 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1987:115249 CAPLUS
DOCUMENT NUMBER: 106:115249
TITLE: Thienylmethylchloroacetanilide herbicides
INVENTOR(S): Kato, Shozo; Ishizaki, Masahiko; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61140506	A2	19860627	JP 1984-261773	19841213

GI



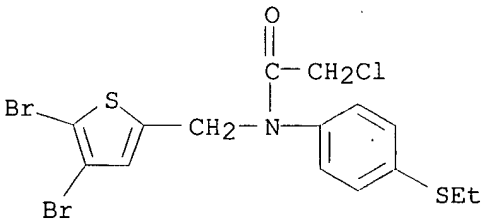
I

AB Thiophene deriv. I (R1, R2, R3 = H, halo, alkyl, alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R4 = H, alkyl; R5, R6, R7 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio) are prepd. as herbicides and eventually combined with known benzothiazine deriv. Thus, postemergence, N-(3'-thienylmethyl)-N-chloroacetyl-2.6-dimethylanilide and Basagran (2 + 8 g/are) totally controlled Panicum crus-galli, Cyperus difformis, C. serotinus, and Scirpus hotarui, without damage to rice, in pots expts.

IT **103465-74-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

RN 103465-74-3 CAPLUS

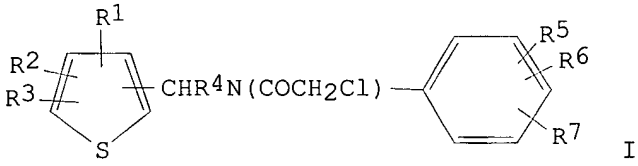
CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 40 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1987:115248 CAPLUS
DOCUMENT NUMBER: 106:115248
TITLE: Thienylmethylchloroacetanilide herbicides
INVENTOR(S): Kato, Shozo; Ishizaki, Masahiko; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61140504	A2	19860627	JP 1984-260859	19841212
JP 05003445	B4	19930114		

GI

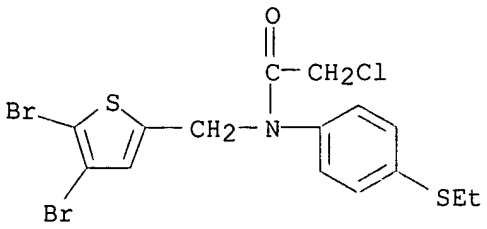


I

AB Thiophene deriv. I (R1, R2, R3 = H, halo, alkyl, alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R4 = H, alkyl; R5, R6, R7 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio) are prepd. as herbicides and are optionally combined with known pyrazole derivs. Thus, postemergence, N-(3-thienylmethyl)-N-chloroacetyl-2,6- dimethylanilide and 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-5-p-tosyloxypyrazole, applied at 2 + 8 g/are, totally controlled Panicum crus-galli, Cyperus difformis, C. serotinus, Scirpus botarui, and Sagittaria pygmaea without damage to rice in pots expts.

IT **103465-74-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

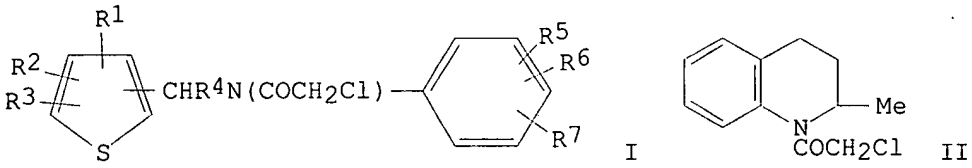
RN 103465-74-3 CAPLUS
CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 41 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1987:115247 CAPLUS
DOCUMENT NUMBER: 106:115247
TITLE: Thienylmethylchloroacetanilide herbicides
INVENTOR(S): Kato, Shozo; Suyama, Toshihisa; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61140502	A2	19860627	JP 1984-262883	19841214

GI

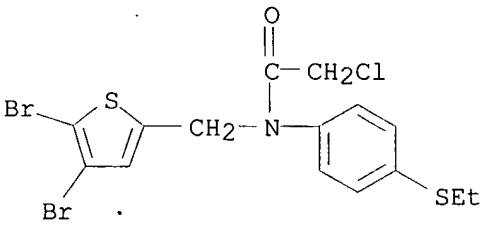


AB Thiophene derivs. I (R1, R2, R3 = H, halo, alkyl, alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R4 = H, alkyl; R5, R6, R7 = H, alkyl, halo, alkenyl, alkynyl, alkoxy, alkylthio) are prepd. as herbicides and are optionally combined with known cyclic amide derivs. Thus, postemergence, N-(3-thienylmethyl)-N-chloroacetyl-2,6-dimethylanilide and tetrahydroquinoline deriv. II (10 + 5 g/are) totally controlled Panicum crus-galli, Cyperus difformis, and C. serotinus without damage to rice in pot expts.

IT **103465-74-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

RN 103465-74-3 CAPLUS

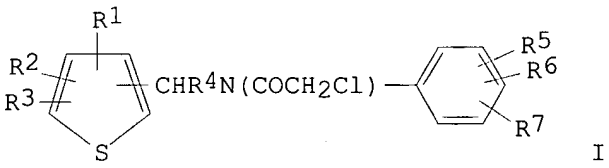
CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 42 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1987:133801 CAPLUS
DOCUMENT NUMBER: 106:133801
TITLE: Thienylmethylchloroacetanilide herbicides
INVENTOR(S): Kato, Shozo; Kondo, Naohiko; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61134302	A2	19860621	JP 1984-256481	19841206
JP 05003444	B4	19930114		

GI



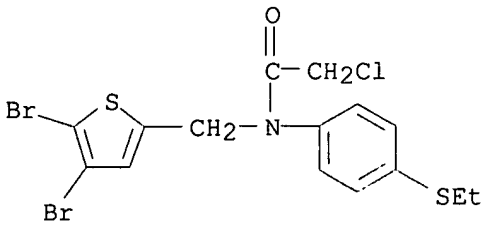
I

AB Thiophane deriv. I (R1, R2, R3 = H, halo, alkyl alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R4 = H, alkyl; R5, R6, R7 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio) are prepd. as herbicides. Thus, 1.81 g N-[(5-bromo-2-thienylmethyl)]-2,6-dimethylaniline and 0.81 g Et3N was reacted with 0.83 g chloroacetyl chloride in benzene to give 1.13 g N-[(5-bromo-2-thienylmethyl)]-N-chloroacetyl-2,6-dimethylaniline (II). Postemergence II, applied at 1.5 g/are, totally controlled Panicum crus-galli in rice, in pot expts.

IT **103465-74-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

RN 103465-74-3 CAPLUS

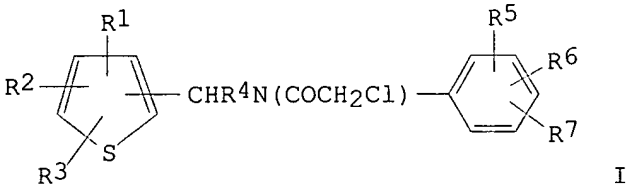
CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)



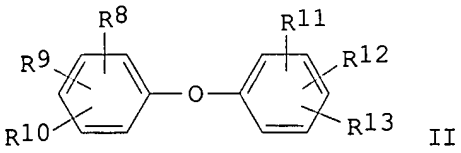
L36 ANSWER 43 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1987:133800 CAPLUS
DOCUMENT NUMBER: 106:133800
TITLE: Herbicide compn.
INVENTOR(S): Kato, Shozo; Ishizaki, Masahiko; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61130202	A2	19860618	JP 1984-251495	19841130
JP 05003443	B4	19930114		

GI



I

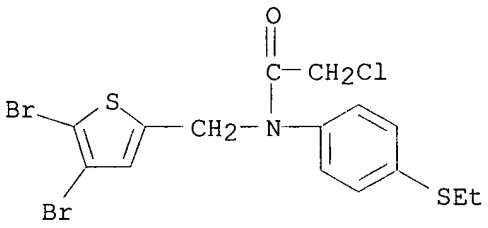


II

AB A compn. comprising I (R1,R2,R3 = H, halo, alkyl, alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R4 = H, alkyl; R5,R6,R7 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio) and II (R8,R9,R10,R11,R12,R13 = H, halo, NO2, alkyl, alkoxy, alkylsulfinyl, alkoxycarbonyl, carboxyl) or a II salt) is a synergistic herbicide. Thus, postemergence I (R1 = R2 = R3 = R4 = R7 = H, R5 = 2-Me, R6 = 6-Me) and II (R8 = 2-Cl, R9 = 4-Cl, R10 = 6-Cl, R11 = 4-NO2, R12 = R13 = H) applied at 8 and 2 g/are, resp., totally controlled Panicum crus-galli, Cyperus difformis and Scirpus hotarui in pot expts. Applying each herbicide alone showed less activity. The prepn. of I is given.

IT **103465-74-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

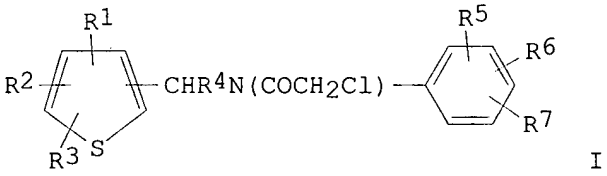
RN 103465-74-3 CAPLUS
CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)



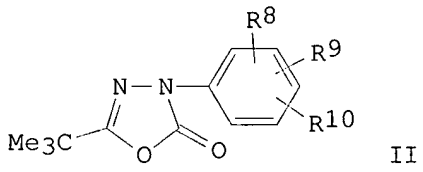
L26 ANSWER 44 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1987:115245 CAPLUS
DOCUMENT NUMBER: 106:115245
TITLE: N-(thienylalkyl)chloroacetanilides and oxadiazolones as synergistic wide-spectrum herbicides for rice
INVENTOR(S): Kato, Shozo; Ishizaki, Masahiko; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61129101	A2	19860617	JP 1984-249725	19841128

GI



I

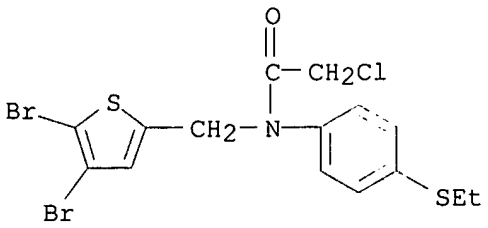


II

AB A compn. comprising (thienylalkyl)acetanilides I (R1-R3 = H, halo, alkyl, alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R4 = H, alkyl; R5-R7 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio) and oxadiazolones II (R8-R10 = H, halo, alkyl, alkoxy) is a synergistic wide-spectrum herbicide for rice. Thus, postemergence I (R1-R4, R7 = H; R5, R6 = 2,6-Me2) (prepn. given) and II (R8, R9 = 2,4-Cl2, R10 = 6-iso-PrO) (8 + 3 g/are) totally controlled Echinochroa crus-galli, Cyperus difformus, and Scirpus hotarui in rice. Applying each herbicide alone showed less activity.

IT **103465-74-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP

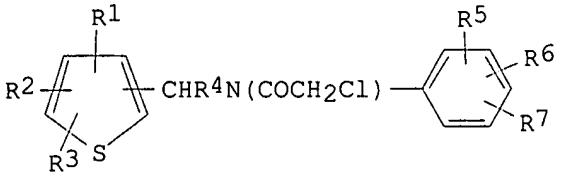
(Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 103465-74-3 CAPLUS
CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)



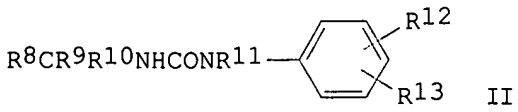
L56 ANSWER 45 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1987:115244 CAPLUS
DOCUMENT NUMBER: 106:115244
TITLE: Synergistic herbicidal compositions containing N-(thienylalkyl)chloroacetanilides and urea derivatives
INVENTOR(S): Kato, Shozo; Ishizaki, Masahiko; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61122207	A2	19860610	JP 1984-243202	19841120
JP 05003446	B4	19930114		

GI



I



II

AB A compn. comprising I (R1-R3 = H, halo, alkyl, alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R4 = H, alkyl; R5-R7 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio) and II [R8 = (un)substituted alkyl, Ph; R9, R10 = alkyl; R11 = H, alkyl; R12, R13 = H, halo, (un)substituted alkyl, alkoxy] is a synergistic wide-spectrum herbicide for rice. Thus, postemergence I (R1-R4 = R7 = H, R5R6 = 2,6-Me2) (prepn. given) and II (R8 = Ph, R9 = R10 = Me, R11 = R13 = H, R12 = 4-Me) (8 + 2 g/are) totally controlled Echinochloa crus-galli, Cyperus difformis, and Scirpus hotarui

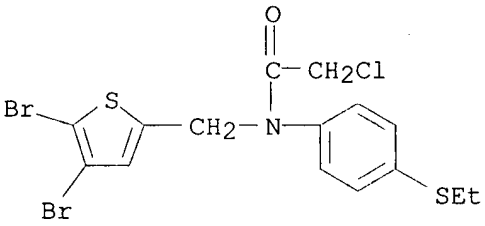
in rice. Applying each herbicide alone showed less activity.

IT **103465-74-3P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)

RN 103465-74-3 CAPLUS

CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)

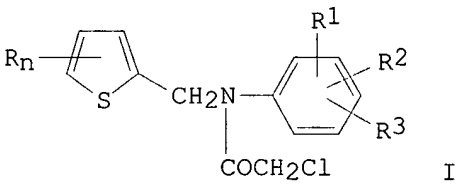


L46 ANSWER 46 OF 60 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1986:460516 CAPLUS
DOCUMENT NUMBER: 105:60516
TITLE: N-Substituted chloroacetanilides
INVENTOR(S): Kato, Shozo; Takematsu, Tetsuo; Ishizaki, Masahiko; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61065881	A2	19860404	JP 1984-188081	19840910

OTHER SOURCE(S): CASREACT 105:60516
GI



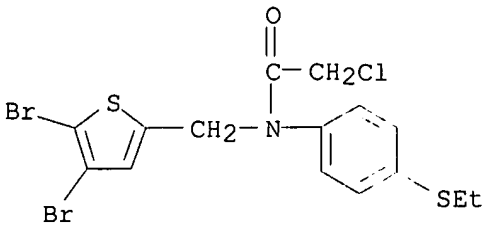
I

AB Title compds. I (R = halo, alkoxy, alkylthio, alkyl; R1, R2, R3 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkylthio; n = 2, 3), useful as herbicides, were prepd. Thus, stirring 1.25 g N-[(4,5-dibromo-2-thienyl)methyl]-2,6-dimethylaniline with 0.43 g ClCH2COCl and 0.44 g Et3N in benzene at 0.degree. for 2 h and at room temp. for 4 h gave 0.88 g I (Rn = 4,5-Br2; R1 = 2-Me, R2 = H, R3 = 6-Me) (II). II showed herbicidal activity at 25 g/are.

IT **103465-74-3P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

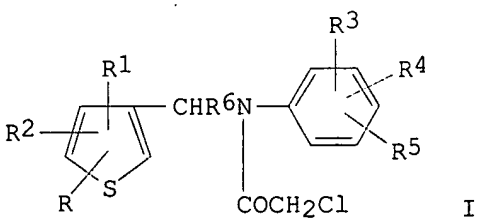
(prepn. and herbicidal activity of)
RN 103465-74-3 CAPLUS
CN Acetamide, 2-chloro-N-[(4,5-dibromo-2-thienyl)methyl]-N-[4-(ethylthio)phenyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 47 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1986:442630 CAPLUS
DOCUMENT NUMBER: 105:42630
TITLE: N-Substituted chloroacetanilides
INVENTOR(S): Kato, Shozo; Takematsu, Tetsuo; Ishizaki, Masahiko; Ogasawara, Masaru
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61036280	A2	19860220	JP 1984-153986	19840726
JP 05013160	B4	19930219		

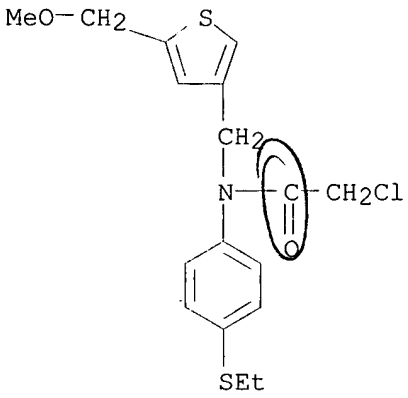
OTHER SOURCE(S): CASREACT 105:42630
GI



I

AB Title compds. I (R = halo, alkyl, alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R1, R2 = H, halo, alkyl, alkoxy, alkylthio, alkoxyalkyl, alkylthioalkyl; R3, R4, R5 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, alkyithio; R6 = H, alkyl), useful as herbicides, were prepd. Thus, N-acylation of N-(2-methoxy-3-thienylmethyl)-2,6-dimethylaniline with ClCH2COCl gave I (R = 2-MeO, R1 = R2 = R5 = R6 = H, R3 = 2-Me, R4 = 6-Me) (II). II showed herbicidal activity at 12.5 g/are.
IT **103117-06-2P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 103117-06-2 CAPLUS

CN Acetamide, 2-chloro-N-[4-(ethylthio)phenyl]-N-[[5-(methoxymethyl)-3-thienyl]methyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 48 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1985:406367 CAPLUS
DOCUMENT NUMBER: 103:6367
TITLE: Amines as fungicidal agents
INVENTOR(S): Krumkalns, Eriks Victor; Smiley, David Lee
PATENT ASSIGNEE(S): Lilly, Eli, and Co. , USA
SOURCE: Eur. Pat. Appl., 86 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

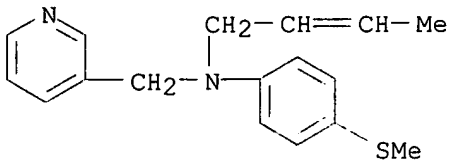
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 129433	A2	19841227	EP 1984-304094	19840618
EP 129433	A3	19870506		
R: BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4552960	A	19851112	US 1984-595866	19840402
IL 72094	A1	19880731	IL 1984-72094	19840613
DK 8402970	A	19841221	DK 1984-2970	19840618
GB 2141714	A1	19850103	GB 1984-15506	19840618
GB 2141714	B2	19861210		
CA 1240998	A1	19880823	CA 1984-456799	19840618
JP 60013760	A2	19850124	JP 1984-128413	19840619
HU 34102	O	19850228	HU 1984-2355	19840619
HU 198690	B	19891128		
BR 8402996	A	19850528	BR 1984-2996	19840619

PRIORITY APPLN. INFO.: US 1983-506174 19830620
US 1984-595866 19840402
OTHER SOURCE(S): CASREACT 103:6367

AB About 57 R1(CHR2)mN(CHR3R4)(CH2)nR5 [R2 = H, alkyl, (un)substituted Ph; R3 = H, Ph; R4 = H, alkyl, haloalkyl, alkenyl, alkynyl, cycloalkyl, dioxanyl, naphthlenyl; R1 = (un)substituted pyridyl, or pyridazenyl, or pyrimidinyl or pyrazinyl; R5 = (un)substituted Ph or phenylthio or phenoxy; m = 0-2; n = 0-3], plant fungicides, were prepd. Thus, the imine prepd. from 4-chlorobenzaldehyde and 5-aminopyrimidine was reduced with NaBH4, then alkylated with BuI to give N-butyl-N-[(4-chlorophenyl)methyl]-(5-pyrimidinyl)amine (I). At 400 ppm, I showed complete control of leaf rust on wheat (foliar spray application).

IT **96399-70-1P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic

preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and fungicidal activity of)
RN 96399-70-1 CAPLUS
CN 3-Pyridinemethanamine, N-2-butenyl-N-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)

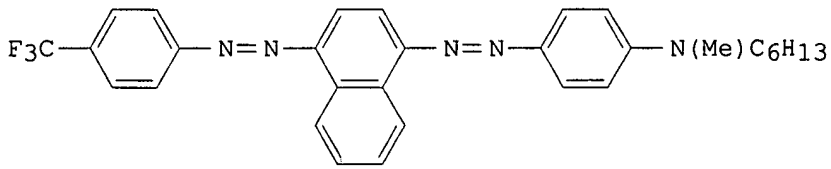


L26 ANSWER 49 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1984:148633 CAPLUS
DOCUMENT NUMBER: 100:148633
TITLE: Liquid crystal composition
INVENTOR(S): Kaneko, Masaharu; Yoneyama, Tomio; Iwanami, Junko; Imazeki, Syuji; Mukoo, Akio; Sato, Mikio
PATENT ASSIGNEE(S): Hitachi, Ltd. , Japan; Mitsubishi Chemical Industries Co., Ltd.
SOURCE: Eur. Pat. Appl., 59 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 98522	A2	19840118	EP 1983-106353	19830629
EP 98522	A3	19860319		
EP 98522	B1	19890607		
R: CH, DE, GB, LI				
JP 59004674	A2	19840111	JP 1982-111689	19820630
JP 04061035	B4	19920929		
JP 59004675	A2	19840111	JP 1982-111690	19820630
JP 06013703	B4	19940223		
US 4588517	A	19860513	US 1983-509051	19830629

PRIORITY APPLN. INFO.: JP 1982-111689 19820630
JP 1982-111690 19820630

GI



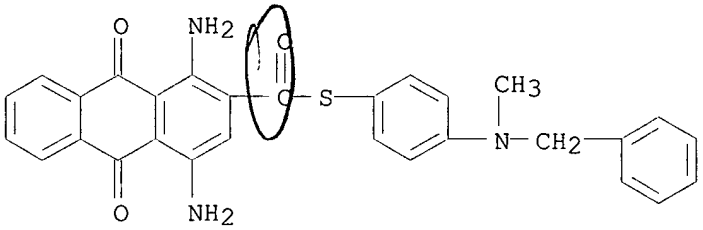
I

AB A pleochroic dye for liq. crystal displays is described which exhibits a high order parameter and good soly. in the liq. crystal mixts. The dye mol. contains as end group(s) NRR1 (R = a straight chain alkyl group in which -CH2- groups not adjacent to N atom may be substituted by O or S; R1 = alkyl having a different chain than that of R or CH2C6H4-p-R2, R2 = H, alkyl, alkoxy, cycloalkyl, dialkylamino, in R1 -CH2- not adjacent to N may be substituted by O or S). Thus, a display cell (with a gap between glass

plates of 10.mu.) was filled with a compn. contg. ZLI-1132 and I 0.73 wt.%. Dye order parameter S equaled 0.74, absorbances A|| and A.perp. (measured with the light polarized in the direction parallel and perpendicular to the orientation of the mols. of the liq. crystal) equaled 1.036 and 0.129, resp.

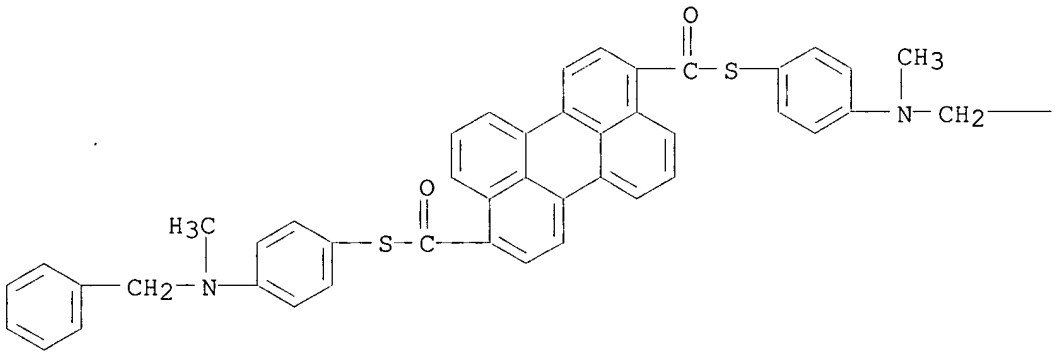
IT **89134-60-1 89134-90-7**
RL: USES (Uses)
(liq.-crystal display device contg., order parameter of)

RN 89134-60-1 CAPLUS
CN 2-Anthracenecarbothioic acid, 1,4-diamino-9,10-dihydro-9,10-dioxo-, S-[4-[methyl(phenylmethyl)amino]phenyl] ester (9CI) (CA INDEX NAME)

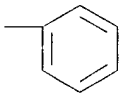


RN 89134-90-7 CAPLUS
CN 3,9-Perylenedicarbothioic acid, S,S-bis[4-[methyl(phenylmethyl)amino]phenyl] ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

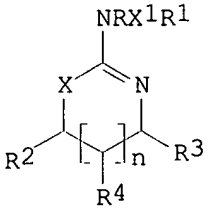


L26 ANSWER 50 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1984:191866 CAPLUS
DOCUMENT NUMBER: 100:191866
TITLE: Fungicidal heterocyclic amines
INVENTOR(S): Krumkalns, Eriks Victor; Smiley, David Lee
PATENT ASSIGNEE(S): Lilly, Eli, and Co. , USA
SOURCE: Brit. UK Pat. Appl., 40 pp.

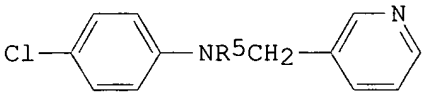
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2121414	A1	19831221	GB 1983-15446	19830606
GB 2121414	B2	19860305		
US 4552886	A	19851112	US 1983-472439	19830307
CA 1223586	A1	19870630	CA 1983-429587	19830602
DK 8302569	A	19831208	DK 1983-2569	19830606
EP 97013	A2	19831228	EP 1983-303256	19830606
EP 97013	A3	19850102		
R: BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 59001481	A2	19840106	JP 1983-101597	19830606
BR 8302975	A	19840207	BR 1983-2975	19830606
HU 31956	O	19840628	HU 1983-2019	19830606
HU 193491	B	19871028		

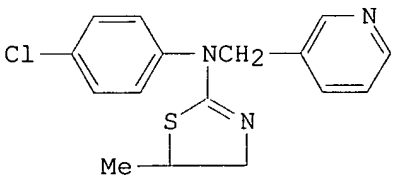
PRIORITY APPLN. INFO.: US 1982-385602 19820607
US 1983-472439 19830307
OTHER SOURCE(S): CASREACT 100:191866
GI



I



II

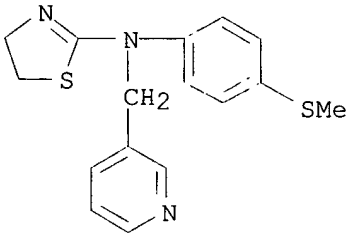


III

AB The title compds. I [X = O, S; X1 = bond, (un)substituted CH2, CH2CH2; R = pyridyl, pyrimidinyl, pyrazinyl, pyridazinyl; R1 = (un)substituted alkyl, Ph, alkenyl, alkoxy, cycloalkyl; R2-R4 = H, alkyl; n = 0, 1] were prepd. Thus II (R5 = H) was treated with CH2:CHCH2NCS to give II (R5 = CSNHCH2CH:CH2) which was cyclized with acid to III. At 10 ppm III gave 86% growth inhibition of Hydrilla verticillata. At 35 lb/acre II protected cotton against damping off by Rhizoctonia.

IT **89985-16-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and plant growth-inhibiting and fungicidal activity of)

RN 89985-16-0 CAPLUS
CN 3-Pyridinemethanamine, N-(4,5-dihydro-2-thiazolyl)-N-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 51 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1977:551868 CAPLUS
DOCUMENT NUMBER: 87:151868
TITLE: Urea derivatives
INVENTOR(S): Yamamoto, Michihiro; Koshiba, Masao; Yamamoto, Hisao
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Japan. Kokai, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

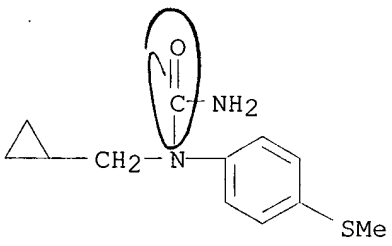
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52073801	A2	19770621	JP 1975-151617	19751217
JP 59008272	B4	19840223		

AB Sixty-five urea derivs. RR1NCONR2R3 (R = alkyl, cycloalkyl, aralkyl, adamantyl, aryl, heterocyclic; R1 = H, alkyl, haloalkyl, cycloalkyl, cycloalkylalkyl; RNR1 may form a ring; R2 = H, alkyl, alkenyl, cycloalkyl, aralkyl, alkoxy; R3 = H, alkyl, alkenyl; R2NR3 may form a ring) were prepd. by reaction of RR1NH with X3CCO2H (X = halo) or their derivs. followed by reaction of the resulting RR1NCOCX3 with R2R3NH. Thus, 10 g Et3N was added to a mixt. of 12.8 g 4-ClC6H4NH2 and 18.2 g Cl3CCOCl in C6H6 with ice cooling and the whole stirred 5 h at room temp. to give 86% 4-ClC6H4NHCOCCl3 (I). Autoclaving 1.37 g I with 3 g NH3 at room temp. overnight gave 94% 4-ClC6H4NHCONH2.

IT **64407-56-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

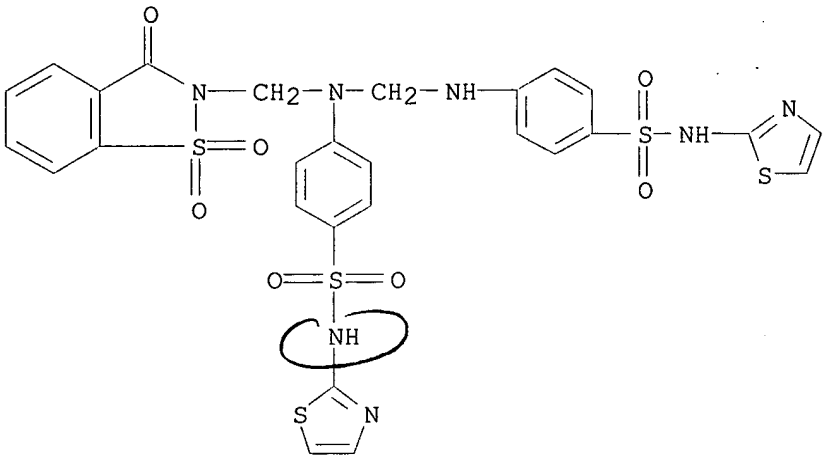
RN 64407-56-3 CAPLUS

CN Urea, N-(cyclopropylmethyl)-N-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)

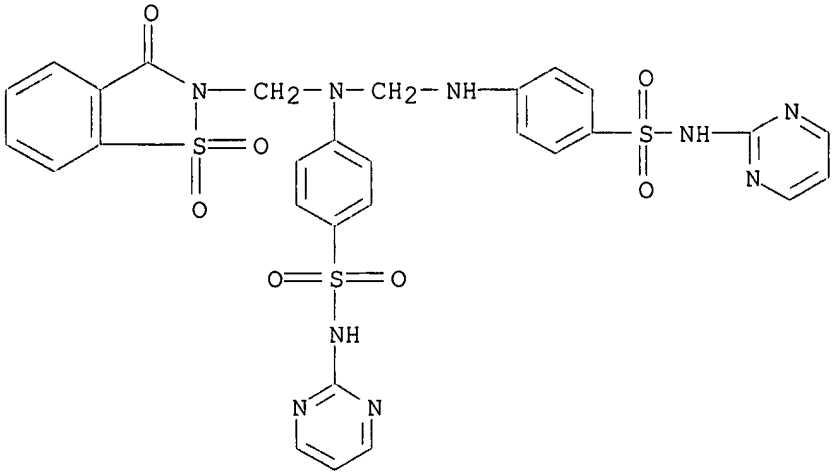


L26 ANSWER 52 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1976:30945 CAPLUS
DOCUMENT NUMBER: 84:30945
TITLE: Condensation products of saccharin with some amines. V

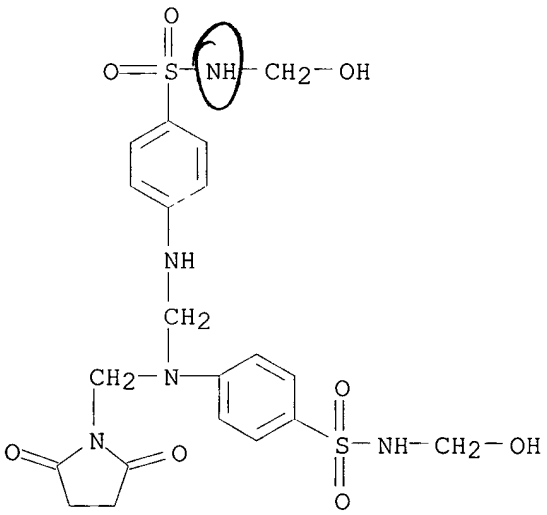
AUTHOR(S): Kutlu, Husamettin
CORPORATE SOURCE: Eczacilik Fak., Univ. Istanbul, Istanbul, Turk.
SOURCE: Istanbul Univ. Eczacilik Fak. Mecm. (1975), 11(1), 5-7
CODEN: IEFMA9
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Mannich reaction of saccharin with sulfathiazole gave the secondary Mannich base I; analogous condensation products were obtained with sulfanilamide and sulfadiazine. Isonicotinic acid hydrazide reacted with saccharin to give N-benzisothiazol-3-ylisonicotinic acid hydrazide.
IT **57727-89-6P 57727-90-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 57727-89-6 CAPLUS
CN Benzenesulfonamide, 4-[[[[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)methyl][4-[(2-thiazolylamino)sulfonyl]phenyl]amino]methyl]amino]-N-2-thiazolyl- (9CI) (CA INDEX NAME)



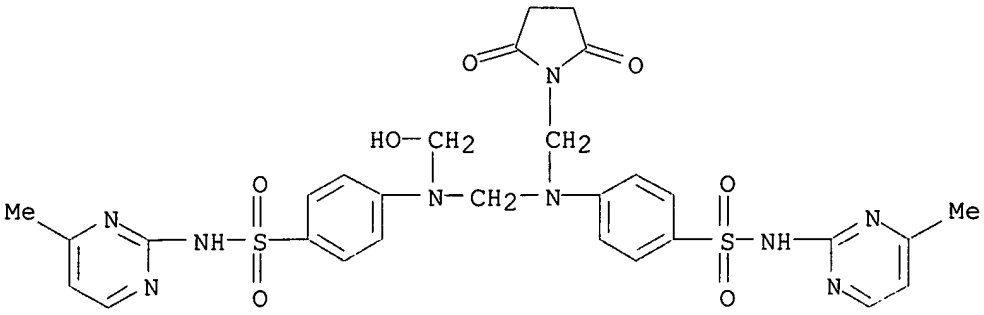
RN 57727-90-9 CAPLUS
CN Benzenesulfonamide, 4-[[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)methyl][[[4-[(2-pyrimidinylamino)sulfonyl]phenyl]amino]methyl]amino]-N-2-pyrimidinyl- (9CI) (CA INDEX NAME)



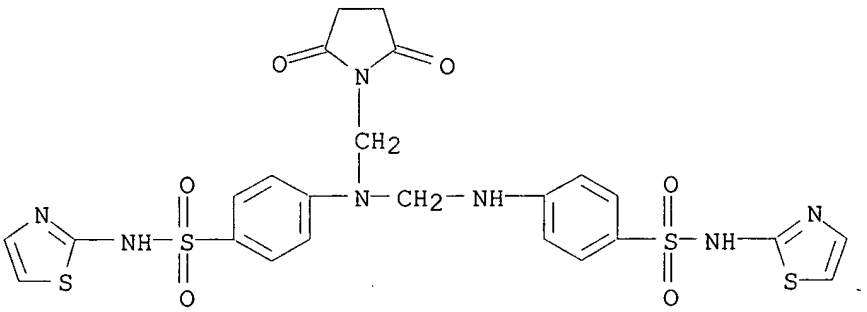
L26 ANSWER 53 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1975:593121 CAPLUS
DOCUMENT NUMBER: 83:193121
TITLE: N-Substituted derivatives of succinimide. II
AUTHOR(S): Kutlu, Husamettin
CORPORATE SOURCE: Eczacilik Fak., Univ. Istanbul, Istanbul, Turk.
SOURCE: Istanbul Univ. Eczacilik Fak. Mecm. (1975), 11(1), 1-4
CODEN: IEFMA9
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Mannich bases were prepd. by reaction of succinimide with paraformaldehyde and sulfanilamide, sulfathiazole (I), sulfamerazine (II), 3-amino-, or 3,5-diamino-1H-1,2,4-triazole. Thus, heating a mixt. of succinimide, paraformaldehyde, and I for 4 hr gave III (R = H, R1 = 2-thiazolyl) in 81.0% yield. Similar reaction with II gave 56.8% III (R = CH2OH, R1 = 4-methyl-2-pyrimidinyl).
IT **57240-64-9P 57240-65-0P 57320-94-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 57240-64-9 CAPLUS
CN Benzenesulfonamide, 4-[[(2,5-dioxo-1-pyrrolidinyl)methyl][[[4-[[(hydroxymethyl)amino]sulfonyl]phenyl]amino]methyl]amino]-N-(hydroxymethyl)- (9CI) (CA INDEX NAME)



RN 57240-65-0 CAPLUS
CN Benzenesulfonamide, 4-[[(2,5-dioxo-1-pyrrolidinyl)methyl][[(hydroxymethyl)[4-[[(4-methyl-2-pyrimidinyl)amino]sulfonyl]phenyl]amino]methyl]amino]-N-(4-methyl-2-pyrimidinyl)- (9CI) (CA INDEX NAME)



RN 57320-94-2 CAPLUS
CN Benzenesulfonamide, 4-[[(2,5-dioxo-1-pyrrolidinyl)methyl][[[4-[(2-thiazolylamino)sulfonyl]phenyl]amino]methyl]amino]-N-2-thiazolyl- (9CI) (CA INDEX NAME)



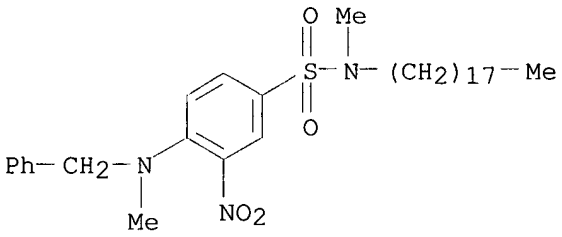
L26 ANSWER 54 OF 60 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1970:100325 CAPLUS
DOCUMENT NUMBER: 72:100325
TITLE: Yellow color formers
INVENTOR(S): Schulte, Walter; Maeder, Helmut; Pelz, Willibald; Nittel, Fritz; Reckziegel, Erich
PATENT ASSIGNEE(S): Gevaert-Agfa N. V.
SOURCE: Belg., 18 pp.
CODEN: BEXXAL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 717841		19690110		

PRIORITY APPLN. INFO.: DE 19680710
GI For diagram(s), see printed CA Issue.
AB Light and heat stable color formers for AgX films are prepd. Thus, 81 g H2NC18H37 and 41 ml Et3N are dissolved in 800 ml tetrahydrofuran (THF), 75 g 3,4-O2N(MeO)-C6H3SO2Cl in 200 ml THF added dropwise, and the soln. stirred 1 hr at 25.degree. to give 140 g 3,4-O2N(MeO)C6H3SO2NHC18H37 (I) m. 102.degree. (dioxane). I (130 g) is reduced in 1.61. MeOH over Raney Ni under 50 atm. H at 50.degree. to give 100 g 3,4-H2N(MeO)C6H3SO2-NHC18H37 (II), m. 89.degree.. II (34 g) in 25 ml Et3N and 300 ml PHCl is refluxed 4 hr at 140.degree. with 25 g p-MeOC6H4CO2Ac 4 hr in 100 ml PHCl. After pptn. with MeOH, 38 g solid, m. 140.degree., was reacted at room temp. with 230 ml dil. H2SO4, and the soln. heated to 40.degree. for 1 hr

to give 28 g III (R1 = OMe, R2 = H, R3 = C18H37), m. 140.degree. (MeOH). III similarly prepd. were (R1, R2, and R3 given): morpholino, H, C18H37; MeN(C18H37), H, Me; MeNCH2Ph, Me, C18H27; Et2N, H, C18H37; Cl, H, C18H37; MeNC18H37, H, Bu; MeNC18H37, Et, Et; C5H11N, H, C18H37; OC16H33, H, Me; MeNC18H37, H, Et; OMe, Me, C18H37. Addn. of a basic alc. soln. contg. any III to a photographic AgBr gelatine emulsion followed by coating, exposure and development gave rise to absorbance of 0.5-1.5.

IT **26093-37-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 26093-37-8 CAPLUS
CN Sulfanilamide, N4-benzyl-N1,N4-dimethyl-3-nitro-N1-octadecyl- (8CI) (CA INDEX NAME)



L26 ANSWER 55 OF 60 USPATFULL

ACCESSION NUMBER:	96:65567 USPATFULL
TITLE:	Substituted tertiary amino compound or salt thereof
INVENTOR(S):	Okada, Minoru, Ibaraki, Japan Yoden, Toru, Ibaraki, Japan Kawaminami, Eiji, Ibaraki, Japan Shimada, Yoshiaki, Ibaraki, Japan Kudou, Masafumi, Ibaraki, Japan Isomura, Yasuo, Ibaraki, Japan
PATENT ASSIGNEE(S):	Yamanouchi Pharmaceutical Co., Ltd., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5538976		19960723	
	WO 9322290		19931111	##STR1##
APPLICATION INFO.:	US 1994-325383		19941026	(8)
	WO 1993-JP548		19930427	
			19941026	PCT 371 date
			19941026	PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1992-137762	19920428
	JP 1992-234298	19920810

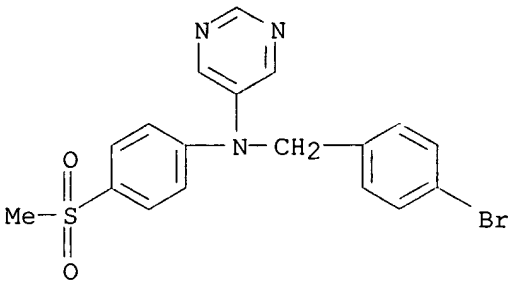
DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Gupta, Yogendra N.
LEGAL REPRESENTATIVE:	Burgess, Ryan and Wayne
NUMBER OF CLAIMS:	11
EXEMPLARY CLAIM:	1
LINE COUNT:	1560

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A substituted tertiary amino compound represented by general formula (I) or a pharmaceutically acceptable salt thereof. They have an aromatase inhibiting activity and are useful as a prophylactic and/or therapeutic agent for breast cancer, mastopathy, endometriosis,

prostatic-hypertrophy, and so forth.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **157911-86-9P**
(prepn. of, as aromatase inhibitor)
RN 157911-86-9 USPATFULL
CN 5-Pyrimidinamine, N-[(4-bromophenyl)methyl]-N-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 56 OF 60 USPATFULL

ACCESSION NUMBER:	91:6920 USPATFULL
TITLE:	Organic thin-film device
INVENTOR(S):	Sato, Itsuko, Tokyo, Japan Naito, Katsuyuki, Yokohama, Japan Genma, Nobuhiro, Yokohama, Japan Azuma, Makoto, Yokohama, Japan
PATENT ASSIGNEE(S):	Kabushiki Kaisha Toshiba, Kawasaki, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 4987023		19910122	
APPLICATION INFO.:	US 1989-330205		19890329	(7)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1988-73305	19880329
	JP 1988-253742	19881011

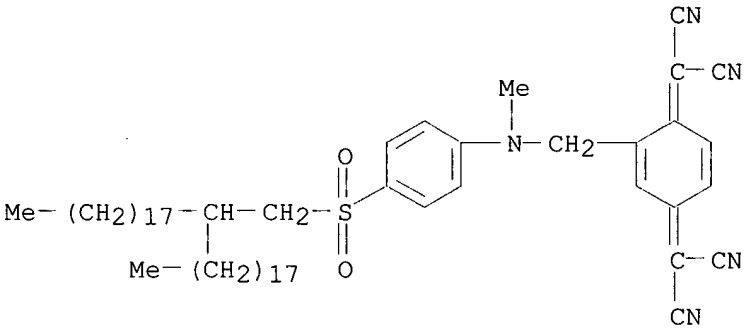
DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Sluby, P. C.
LEGAL REPRESENTATIVE:	Foley & Lardner, Schwartz, Jeffery, Schwaab, Mack, Blumenthal & Evans
NUMBER OF CLAIMS:	10
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT:	651

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB An organic thin film device, including first and second organic thin films containing acceptor and doner molecules, respectively, stacked one on another, in which at least one of the first and second organic thin films contains a chemical species having a dipole moment P.sub.2, and the second dipole moment P.sub.2 and a dipole moment P.sub.1 produced by charge transfer between the acceptor and doner molecules satisfy the following formula:

(P.sub.1 .multidot.P.sub.2).vertline.r.vertline..sup.2 -3(P.sub.1 .multidot.r)(P.sub.2 .multidot.r)<0

wherein r represents a positional relationship between P.sub.1 and P.sub.2. Also disclosed is an organic thin film device, including the first and second organic thin films, and at least one of the first and second organic thin films contains at least one pigment skeleton which is inclined with respect to the lamination direction of the organic thin films.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **126229-92-3**
(electrooptical display device contg. thin films of)
RN 126229-92-3 USPATFULL
CN Propanedinitrile, 2,2'-[2-[[methyl[4-[(2-octadecyleicosyl)sulfonyl]phenyl]amino]methyl]-2,5-cyclohexadiene-1,4-diylidene]bis- (9CI) (CA INDEX NAME)



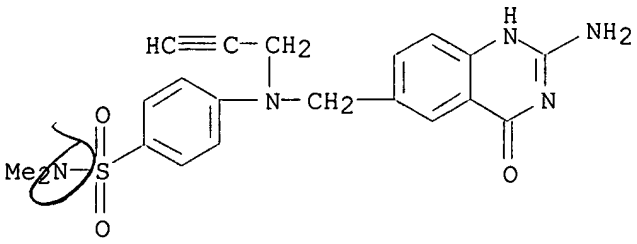
L26 ANSWER 57 OF 60 USPATFULL
ACCESSION NUMBER: 89:67476 USPATFULL
TITLE: Substituted quinazolinones as anticancer agents
INVENTOR(S): Berman, Ellen M., Ann Arbor, MI, United States
Werbel, Leslie M., Ann Arbor, MI, United States
McNamara, Dennis J., Ann Arbor, MI, United States
PATENT ASSIGNEE(S): Warner-Lambert Company, Morris Plains, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 4857530		19890815	
APPLICATION INFO.:	US 1987-116929		19871103	(7)
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	Granted			
PRIMARY EXAMINER:	Hollrah, Glennon H.			
ASSISTANT EXAMINER:	Turnipseed, James H.			
LEGAL REPRESENTATIVE:	Tinney, Francis J.			
NUMBER OF CLAIMS:	17			
EXEMPLARY CLAIM:	1,16			
LINE COUNT:	1178			

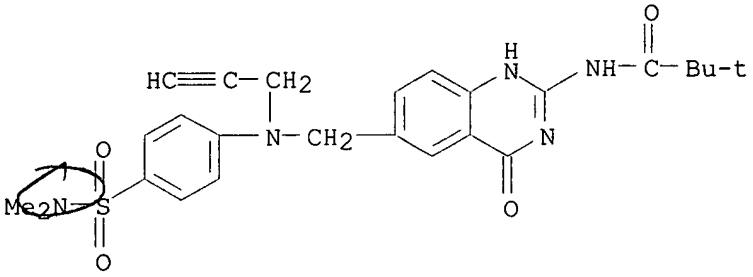
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Novel 6-substituted-4(3H)-quinazolinones are described as well as methods for the preparation and pharmaceutical composition of same, which inhabit the enzyme thymidylate synthase (TS) and are thus useful as anticancer agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **123685-37-0P 123685-53-0P**
(prepn. of, as antitumor agent)
RN 123685-37-0 USPATFULL
CN Benzenesulfonamide, 4-[[(2-amino-1,4-dihydro-4-oxo-6-quinazolinyl)methyl]-

2-propynylamino]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 123685-53-0 USPATFULL
CN Propanamide, N-[6-[[[4-[(dimethylamino)sulfonyl]phenyl]-2-propynylamino]methyl]-1,4-dihydro-4-oxo-2-quinazolinyl]-2,2-dimethyl- (9CI) (CA INDEX NAME)



L26 ANSWER 58 OF 60 USPATFULL

ACCESSION NUMBER:	86:27992 USPATFULL
TITLE:	Liquid crystal composition
INVENTOR(S):	Kaneko, Masaharu, Yamato, Japan Yoneyama, Tomio, Kawasaki, Japan Iwanami, Junko, Yamato, Japan Imazeki, Shuji, Hitachi, Japan Mukoh, Akio, Mito, Japan Sato, Mikio, Hitachi, Japan
PATENT ASSIGNEE(S):	Hitachi, Ltd., Tokyo, Japan (non-U.S. corporation) Mitsubishi Chemical Industries, Ltd., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 4588517		19860513	
APPLICATION INFO.:	US 1983-509051		19830629	(6)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1982-111690	19820630
	JP 1982-111689	19820630

DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Gron, Teddy S.
LEGAL REPRESENTATIVE:	Antonelli, Terry & Wands
NUMBER OF CLAIMS:	10
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT:	457

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

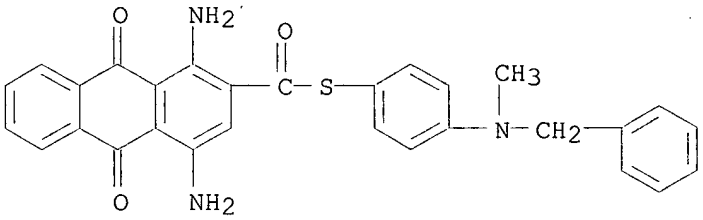
AB The description is concerned with a liquid crystal composition of the guest-host type which contains a pleochroic dye dissolved therein. The dye molecule has an end group or end groups in the molecule represented by the general formula: ##STR1## where Ro designates a straight chain of alkyl group, in which methylene group not adjacent to the nitrogen atom may be substituted by oxygen atom or sulfer atom; R1 designates an alkyl group having a chain length different from that of the alkyl group of Ro or a group ##STR2## in R1 a methylene group not adjacent to the nitrogen atom may be substituted by oxygen atom or sulfur atom, and R2 designates hydrogen atom, alkyl group, alkoxy group, cycloalkyl group or dialkylamino group.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **89134-60-1 89134-90-7**
(liq.-crystal display device contg., order parameter of)

RN 89134-60-1 USPATFULL

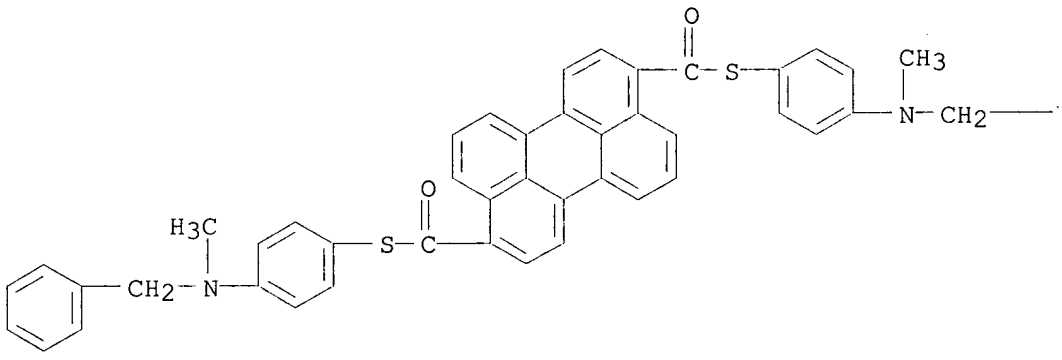
CN 2-Anthracenecarbothioic acid, 1,4-diamino-9,10-dihydro-9,10-dioxo-, S-[4-[methyl(phenylmethyl)amino]phenyl] ester (9CI) (CA INDEX NAME)



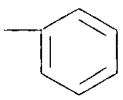
RN 89134-90-7 USPATFULL

CN 3,9-Perylenedicarbothioic acid, S,S-bis[4-[methyl(phenylmethyl)amino]phenyl] ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

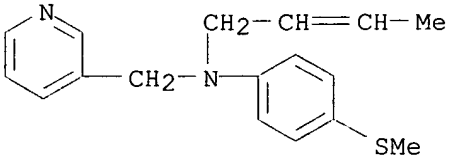


L26 ANSWER 59 OF 60 USPATFULL
ACCESSION NUMBER: 85:66920 USPATFULL
TITLE: Fungicidal amines
INVENTOR(S): Krumkalns, Eriks V., Indianapolis, IN, United States
Smiley, David L., Greenfield, IN, United States
PATENT ASSIGNEE(S): Eli Lilly and Company, Indianapolis, IN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4552960		19851112
APPLICATION INFO.:	US 1984-595866		19840402 (6)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1983-506174, filed on 20 Jun 1983, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Kight, John
ASSISTANT EXAMINER: Moore, M. L.
LEGAL REPRESENTATIVE: Barclay, Bruce J., Page, Kathaleen S., Whale, Arthur R.
NUMBER OF CLAIMS: 21
EXEMPLARY CLAIM: 1
LINE COUNT: 1594
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB N,N-Disubstituted heterocyclic amines are useful as fungicides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **96399-70-1P**
(prepn. and fungicidal activity of)
RN 96399-70-1 USPATFULL
CN 3-Pyridinemethanamine, N-2-butenyl-N-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



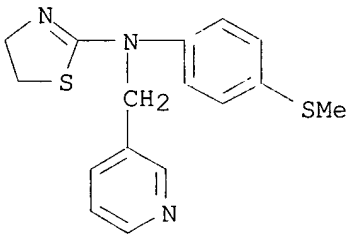
L26 ANSWER 60 OF 60 USPATFULL
ACCESSION NUMBER: 85:66846 USPATFULL
TITLE: Fungicidal pyridylmethyl-amines
INVENTOR(S): Krumkalns, Eriks V., Indianapolis, IN, United States
Smiley, David L., Greenfield, IN, United States
PATENT ASSIGNEE(S): Eli Lilly and Company, Indianapolis, IN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4552886		19851112
APPLICATION INFO.:	US 1983-472439		19830307 (6)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1982-385602, filed on 7 Jun 1982, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Rotman, Alan L.
LEGAL REPRESENTATIVE: Barclay, Bruce J., Page, Kathleen R. S., Whale, Arthur R.
NUMBER OF CLAIMS: 54

EXEMPLARY CLAIM: 1,29
LINE COUNT: 1653
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB N-Thiazolyl heterocyclic amines, useful as fungicides and aquatic plant growth regulators.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **89985-16-0P**
(prepn. and plant growth-inhibiting and fungicidal activity of)
RN 89985-16-0 USPATFULL
CN 3-Pyridinemethanamine, N-(4,5-dihydro-2-thiazolyl)-N-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



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FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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L20             STR
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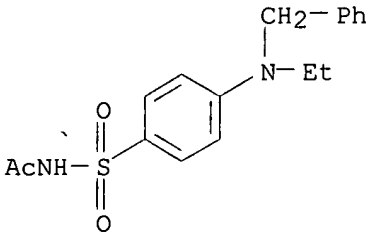
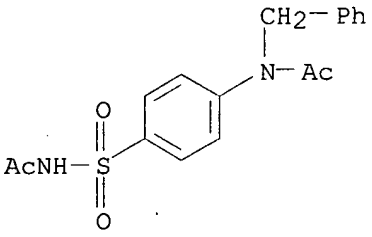
L25 ANSWER 1 OF 2 CAOLD COPYRIGHT 2001 ACS
ACCESSION NUMBER: CA57:16446a CAOLD
TITLE: redn. of Schiff bases - (IV) reductive acylation of Schiff bases using trimethylamine borane
AUTHOR NAME: Billman, John H.; McDowell, J. W.

INDEX TERM: 91-73-6 939-79-7 14429-15-3 19672-91-4 33224-23-6
61667-88-7 61667-90-1 81575-55-5 81575-56-6 92435-85-3
92580-45-5 92852-79-4 93008-11-8 93987-32-7 94164-94-0
94931-07-4 97433-45-9

IT **94931-07-4 97433-45-9**
RN 94931-07-4 CAOLD
CN Acetamide, N-(N-benzyl-N-ethylsulfanilyl)- (7CI) (CA INDEX NAME)



RN 97433-45-9 CAOLD
CN Acetanilide, 4'-(acetylsulfamoyl)-N-benzyl- (7CI) (CA INDEX NAME)

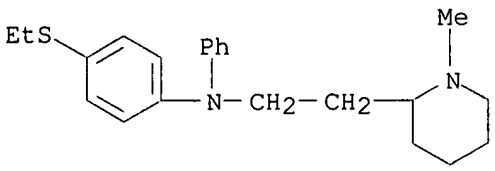


L25 ANSWER 2 OF 2 CAOLD COPYRIGHT 2001 ACS
ACCESSION NUMBER: CA53:16164a CAOLD
TITLE: diphenylamine derivs.
PATENT ASSIGNEE: Sandoz Ltd.
DOCUMENT TYPE: Patent

PATENT NO.	KIND	DATE
GB 808112		

INDEX TERM: 13313-45-6 18902-91-5 18902-93-7 18902-94-8 27122-82-3
60709-95-7 68083-49-8 92547-65-4 94257-39-3 102028-01-3
103261-78-5 103643-15-8 104095-63-8 104095-65-0 108478-66-6
108715-60-2 **110196-00-4** 113651-29-9 113651-30-2
114162-56-0 114164-49-7 116929-58-9 123152-92-1

IT **110196-00-4**
RN 110196-00-4 CAOLD
CN Piperidine, 2-[2-[p-(ethylthio)-N-phenylanilino]ethyl]-1-methyl- (6CI)
(CA INDEX NAME)



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